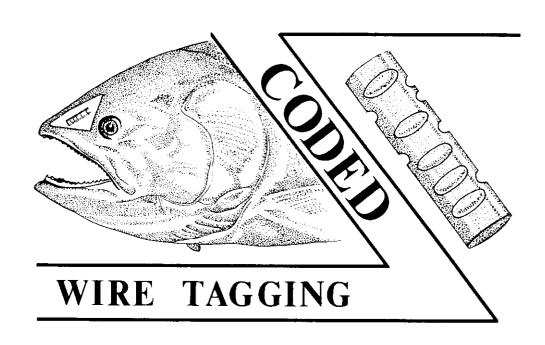




FEDERAL AID IN FISH RESTORATION Job Performance Report, Project F-73-R-5 Subproject II: Salmon and Steelhead Investigations Study IV: Anadromous Fish Marking and Recovery

FISHERN



Rodney C. Duke Senior Fishery Research Biologist January, 1984

Report Generation33

TABLE OF CONTENTS (Continued)

LTS	
Contribution Estimates	
Spring Chinook Salmon	
Hayden Creek	
1979 - Data Code 5/4/54	
Kooskia National Fish Hatchery	
1978 - Data Code 10/3/29	
Data Code 10/3/30	
1979 - Data Code 5/4/26	
Data Code 5/4/27	
Mackay Fish Hatchery	
1979 - Data Code 10/3/48	
Rapid River Fish Hatchery	
1978 - Data Code 10/2/14	
1979 - Data Code 10/4/15	
Data Code 10/4/24	
Red River Rearing Pond	
1978 - Data Code 10/3/28	
Summer Chinook Salmon	
McCall Hatchery	
1978 - Data Code 10/2/23	
1979 - Data Code 10/3/25	
Fall Chinook	
Hagerman National Fish Hatchery	
1979 - Data Codes 5/4/20, 5/4/21	
Summer Steel head	
Dworshak National Fish Hatchery	
1977 - Data Codes 10/13/7,10/13/10, 10/13/11, 10/13/12, 10/13/13 - Homin and migration studies	ng
1978 - Data Codes 10/2/31, 10/13/15 - Contribution, satellite plant	
1979 - Data Codes 10/5/33, 10/5/34, 5/4/25 - Migration, homing	
Hagerman National Fish Hatchery	
1979 - Data Codes 5/4/22, 5/4/23, 5/4/24	
Steelhead	
Niagara Springs Fish Hatchery	
1977 - Data Codes 10/2/23, 10/2/35, 10/2/36 - Feed trials	
1978 - Data Codes 10/3/35, 10/3/46, 10/3/47, 10/3/49 - Homing and migra tion	
1979 - Data Codes 10/3/43, 10/3/44 - Time at release	

TABLE OF CONTENTS (Continued)

<u>Page</u>
DISCUSSION46
Estimating Procedures
ACKNOWLEDGEMENTS51
LITERATURE CITED
APPENDIX53
LIST OF TABLES
Table 1. Summary of the National Marine Fisheries Service 1983 marking operations at Dworshak National Fish Hatchery, Idaho22
Table 2. Summary of expanded tag recoveries of Age 0 and Age 1+ spring chinook salmon released from Kooskia National Fish Hatchery, Idaho, 1978-1979
Table 3. Summary of tag recoveries (expanded) for spring chinook salmon released from Rapid River Hatchery, Idaho, in 1979
Table 4. Summary of expanded tag recovery information from Columbia River and ocean fisheries for summer steelhead released from Dworshak National Fish Hatchery, Idaho, in 1977-79
Table 5. Expanded harvests and hatchery returns for 1977 brood year, summer steelhead released from Dworshak National Fish Hatchery, Idaho, in 1981
Table 6. Summary of actual and expanded tag recovery data from Columbia River and ocean fisheries for steelhead reared at Hagerman National Fish Hatchery and released into the Pahsimeroi River, Idaho, 1979
Table 7. Summary of actual (in parentheses) and expanded tag recovery information from the Columbia River for summer steelhead reared at Niagara Springs Hatchery and released in the Pahsimeroi River, Idaho, 1977-78

LIST OF TABLES (Continued)

	<u>Page</u>
Table 8. Hatchery returns and contribution estimates for summer steelhead reared at Niagara Springs	
Hatchery and released into the Pahsimeroi River,	
Idaho, 1979	48

JOB PERFORMANCE REPORT			
State of:	Idaho	Name:	SALMON AND STEELHEAD INVESTIGATIONS
Project No.: Subproject: _	F-73-R-5 II	Title:	Anadromous Fish Marking and Recovery (Tagging Operations)
Study:	IV		
Period Covere	ed: <u>1 March 1982 - 28</u>	Februar	y 1983
	ABS	TRACT	
The Department's coded-wire tagging program completed its eighth season of work. Total tagging effort was the lowest since initiation of the program with 526,895 fish tagged for release in 1983. This included 250,065 summer steelhead, 62,188 summer chinook salmon and 214,642 spring chinook salmon. No fall chinook salmon were tagged because of poor fish health.			
In 1982 it was necessary to use marks other than the coded-wire tag. The most commonly used mark was the freeze brand. A total of 374,835 fish were freeze branded. Of these, 219,089 were in conjunction with the coded-wire tag. Two additional groups totalling 60,623 were marked with fin clips. This brought the total number of fish marked with either a tag, a single mark or a combination of marks to 743,264. This report summarizes all types of marking operations conducted at Idaho anadromous fish hatcheries.			
Author:			
Rodney C. Duke Senior Fishery R	e Research Biologist		

RECOMMENDATIONS

- 1. The tagging and recovery portions of the coded-wire marking program should be continued until the following can be assessed:
 - A. Idaho's contribution to the various lower Columbia River and ocean fisheries.
 - B. The effectiveness and contribution of new hatcheries.
 - C. Solutions to present problems involved with artificial propagation.
- 2. Any coded-wire tagging program should continue for a minimum of five years after the last tag release in order to retrieve and publish the out-standing tag data.

OBJECTIVES

Mark approximately 1,000,000 salmon and steelhead smolts at Idaho hatcheries with coded-wire tags.

Decode coded-wire tags that are recovered from the Pacific Ocean, Columbia and Idaho fisheries, at hatchery racks and on spawning grounds.

Expand recovery data to estimate harvest of Idaho anadromous fish in various fisheries and determine timing through major river segments.

INTRODUCTION

During the early stages of Idaho's coded-wire tagging program, the following guidelines and goals were established to carry out the objectives of the program:

- 1. Mark salmon and steelhead smolts with a coded-wire tag in order to provide information that is vitally needed for the management and perpetuation of these species in Idaho.
- 2. Tag fish for use in functional experiments which will result in needed information on the various aspects of contribution to fisheries, rearing and releasing.
- 3. Search for better techniques and modifications which will improve the quality and efficiency of tagging operations.
- 4. Tag salmon and steelhead smolts for release each year. Total numbers should be increased as new hatcheries are built.
- 5. Schedule tagging as early in the tagging season as possible to pre-vent excessive handling at smolting time.

- 6. Monitor downstream and ocean recoveries in close coordination with other agencies.
- 7. Plan and coordinate efforts for tag recovery to insure that as many tags as possible are recovered. Recovery efforts should be emphasized at hatcheries and on spawning ground surveys.
- 8. Establish a tag recovery center to receive and analyze recovered tags.

During the past eight years, the program has followed these guidelines and established the necessary procedures and facilities to carry out the objectives of the program. Tagging operations from 1976 to 1983 are summarized by computer listing in the Appendix. The abbreviations used in the listing can be found in the key for tagging operations (Appendix).

Commencing this year, various Department and Idaho Cooperative Fishery Unit personnel marked large numbers of fish utilizing freeze brands and fin clips in addition to the adipose clip coded-wire tag combination. This report summarizes those groups with hatchery origin. The National Marine Fisheries Service (NMFS) also did marking at Dworshak National Fish Hatchery to assess a homing and transportation study. Their work is summarized in Table 1.

There are many studies which utilize the coded-wire tagging system. Since many of these do not represent contribution and will be reported elsewhere, they will not be fully evaluated in this report. In my previous reports, no attempt was made to identify the various investigators involved. Starting in this report, I include the identity of the person presently responsible for a study's evaluation. Hopefully, this will assist interested users of this data in obtaining final conclusions about a particular study. Names of investigators for studies in previous years are available upon re-quest.

TECHNIQUES USED

A complete description of the mobile unit, the tagging machines and the various procedures used in the tagging program is detailed in a coded-wire tagging manual (Duke 1980). The mobile unit did undergo some minor interior modifications during 1981.

All tagging operations summarized in this report follow the standardized methodology for reporting coded-wire tag data. The binary code designation lists the agency, then the DATA 1 row and the DATA 2 row. For example, 10/25/35 represents Agency Code 10, DATA row 1 is 25 and DATA row 2 is 35.

Pre-release tag loss figures were derived for most tagged groups. In some situations where a tag retention check could not be made, the eight year average tag loss of 3.0% was assumed.

Freeze branding operations were conducted using standard cold branding procedures utilizing liquid nitrogen (Raymond 1974). The freeze brand designation followed that methodology in wide acceptance, i.e., the location of the brand on the fish followed by the brand used, with the position of the brand stated last. Only 4 locations were used on the fish: under the dorsal fin (dorsal) and anterior to the dorsal (anterior), on both right and left sides. The branding tool was positioned one of four ways: straight *up* (*position* 1), *to the* right 90° (*position* 2), upside *down* (*position* 3), and 270° or 90° to the left (position 4). Therefore, *an* upside down "T" brand on the left side below the dorsal fin would be designated L.D. T-3.

All lots of fish marked in 1982-83 at Idaho hatcheries are catalogued within this report by species and then hatchery. Pertinent marking information is summarized under each mark designation used at the hatchery.

Computer Program

The computer program known as the Statistical Analysis System (SAS) was used to record and summarize tag release information for all release years. The release information report includes data on fish size, number of fish tagged and released, mode of migration, purpose of the release,

site of release and other pertinent information. The tag release information is listed in separate groupings. The information listed in the Appendix is by hatchery and data code. However, the information is also summarized by:

- A. Data code;
- B. Release year and data code;
- C. Species, grouped by release year and by data code; and
- D. Drainage, grouped by release year and data code.

In addition, the number of fish released is totalled by *year*, drainage, or species where applicable. The information in the form of the latter four groupings is available upon request.

RESULT

S 1983 Outmigration

The total number of fish tagged for release in 1983 was the lowest since the first year of the project in 1976. Only 526,895 fish were coded-wire tagged and adipose clipped. This includes 250,065 steelhead, 62,188 summer chinook and 214,642 spring chinook salmon. No fall chinook salmon were tagged because of health related problems.

Because of fish health problems, cost of tagging and the need to evaluate the timing of the outmigration, several groups of fish were freeze branded, sometimes in conjunction with the coded-wire tag. A total of 374,835 fish were freeze branded. Of these, 219,089 were in conjunction with a coded-wire tag. In addition, two groups totalling 60,623 fish were marked with ventral fin clips. The number of fish marked with either a single or a combination of marks during the project year totalled 743,264. Though the total number of coded-wire tagged fish was decreased, the total mark effort is comparable to previous years.

Unlike previous years, tagging operations were conducted at only four hatcheries, Hagerman National, Dworshak National, McCall and Rapid River. All operations were completed during winter except for an Age 0 chinook salmon study at Hagerman National. Fish health presented problems throughout the year and prevented tagging several groups of fish.

DWORSHAK NATIONAL FISH HATCHERY

Freeze Brands: L.D. U-3 - Fall release

R.D. U-3 - Spring release

Purpose: Evaluate fall vs. spring release and stock identification

Investigator: Dr. T.C. Bjornn, Idaho Cooperative Fishery Unit

Work dates: 14-16 December 1982

Stock: Little White Brood Year: 1981 Size at release:

Fall - 12.2/1b Spring - 7.0/1b

Release site: N.Fk. Clearwater Release date:

Fall - 16 December 1982

Spring - 1 April 1983

	<u>L.D. U-3</u>	R.D. U-3
Total Marked:	28,100	20,720
Total Mortality:	0	2,526
Marked Fish Released:	28,100	18,194
Total Group Release:	459,	779
Total Hatchery Release:	- 520,	903

Comments:

Personnel from the University of Idaho supervised this operation. The fish were large, general condition was poor and some precotialness was evident. The group release figure includes all fish released of the Little White stock. The total hatchery release includes 61,124 Rapid River stock released during the same time period of 29 March to 1 April.

HAGERMAN NATIONAL FISH HATCHERY

Binary Code: 10/25/15 Freeze Brand: L.D. T-1

Purpose: Age at release, Bacterial Kidney Disease (BKD) study Investigator: Dr. T.C. Bjornn, Idaho Cooperative Fishery Unit

Work Dates: 10-12 May 1983

Stock: Kooskia Brood Year: 1982 Size at release: 24.7/lb

Release site: Clear Creek Release date: 16-17 June 1983

	<u>Tagged</u>	Freeze Branded
Total Marked:	40,372	21,084
Total Mortality:	2,704	1,575
Mark Loss (%):	2,868(7.6)	
Marked Fish Released:	34,800	19,509
Total Group Release:	37,668	
Total Hatchery Release:	87,168	

Comments:

Fish were selected from raceways having only low to moderate incidence of BKD. Fish were hand sorted to size and only those individuals larger than 80 mm in length were tagged. All fish were in poor health when tagged and high initial mortality occurred preventing the tagging of subsequent groups necessary to evaluate this study. All fish were hauled by truck to Kooskia National Fish Hatchery on 4 June. On 15 June the tag retention check of 436 fish showed 33 without tags. Approximately 20-25,000 unmarked fish were released above the hatchery. The marked fish were all released at the hatchery after a two-day holding period.

KOOSKIA NATIONAL FISH HATCHERY

Freeze Brands: R.A. T-2 R.A. T-1

K.A. 1-1

Purpose: Timing, test rearing density

Investigator: Dr. T. C. Bjornn, Idaho Cooperative Fishery Unit

Work date: 17 February 1983

Stock: Kooskia Brood year: 1981 Size at release: 13.5-14.7/1b

Release site: Clear Creek Release date: 4-12 April 1983

 R.A. T-2
 R.A. T-1

 Total Marked:
 8,000
 14,750

 Total Mortality:
 44
 71

 Marked Fish Released:
 7,956
 14,679

 Total Hatchery Release:
 156,915

Comments:

Freeze-branding was conducted by the University of Idaho Cooperative Fishery Unit. Fish handled well and were in good condition. Initial mortality was low and remained low prior to release. The total hatchery release includes only Age 1+ fish released in the spring. Other on-site releases include a fall release group of Age 1+ fish, two releases of Age O fish and an Age O group reared at Hagerman National and released into Clear Creek (see data code 10/25/15).

PAHSIMEROI REARING PONDS

Freeze Brand: L.D. T-4

Purpose: Identification and timing

Work dates: 1-3 February 1983

Stock: Pahsimeroi/Rapid River Brood Year: 1981

Size at release: 22/1b

Release site: Pahsimeroi River Release date: 10 March 1983

L.D. T-4

Total Marked: 25,155
Total Mortality: 32
Mark Loss N/A
Marked Fish Released: 25,123
Total Hatchery Release: 451,022

Comments:

Fish were in good condition but varied greatly in size. Fish were returned into the pond after marking and held until March. At release the fish traveled downriver in large schools and bird predation was high.

RAPID RIVER HATCHERY

Binary Code: 10/27/17, 10/23/18

Freeze Brand: R.D. T-3

Purpose: Evaluation of Hells Canyon release

Investigator: Tom Levendofske

Work dates: 9-11 March 1983

Stock: Rapid River Brood Year: 1981 Size at release: 27.0/lb.

Release site: Hells Canyon Release date: 18 March 1983

	10/27/17	10/23/18
Total Marked:	43,146	42,508
Total Mortality:	34	220
Mark Loss (%):	2,037 (4.7)	1,988 (4.7)
Marked Fish Released:	41,075	40,300
Total Group Release:	85,400	
Total Hatchery Release:	250,020	

Comments:

The fish were hauled from pond #2 and placed in the raceways on 15 February. The fish showed indications of BKD and did not take the stress of marking as well as fish in previous years. All fish in these two groups were freeze branded. Some hand sorting to size was done with those fish less that 80 mm in length being rejected. Less than 0.5% of the fish were rejected. All fish marked were held in the adult holding pond.

A retention check of the combined groups on 18 March showed 14 without tags in a sample of 300 fish. The total hatchery release represents only those fish released into Hells Canyon. The total hatchery production was 3,248,123.

RAPID RIVER HATCHERY (Continued)

Freeze Brand: R.D. 12-1

Purpose: Hatchery evaluation, timing

Investigator: Tom Levendofske

Work date: 14 March 1983

Stock: Rapid River Brood Year: 1981 Size at release: 23.0/1b.

Release site: Rapid River Release date: 26 March 1983

Total Marked: 26,605
Total Mortality: 105
Mark Loss: N/A
Marked Fish Released: 25,500
Total Group Release: 2,998,103

Comments:

Fish were hauled from the lower pond to the raceways on 15 February. At the time of marking, fish showed some signs of BKD, and mortality was higher than in previous years.

SAWTOOTH HATCHERY

Binary Codes: 10/25/35, 10/24/8 Freeze Brand: R.D. T-2

Purpose: New hatchery evaluation Investigator: Fred Partridge, IDFG

Work dates: 15-22 February 1983

Brood Year: 1981 Stock: Upper Salmon/Rapid River

Size at release: 28.7/1b Release date: 29 March 1983 Release site: Upper Salmon River

	10/25/35	10/24/8	Freeze Brand
Total Marked:	52,704	35,912	26,566
Total Mortality:	34	12	17
Mark Loss (%):	1,220 (2.3)	825 (2.3)
Marked Fish Released	51,450	35,075	26,549
Total Group Release:	88,57	0	
Total Hatchery Release:	167,89	5	

Comments:

These fish were reared and marked at McCall Hatchery. At the time of marking, these fish appeared in excellent condition. There was an extreme variation in fish size and sorting was necessary. Those fish under 80mm were not tagged. All the spring chinook at the facility were taken inside the trailer for tagging. However, the release figures disclosed 47% of the fish were not tagged because of their small size. These fish were hauled by truck to the upper Salmon River and released one mile above the proposed hatchery site. A retention check on 23 March showed 7 untagged in a sample of 308.

Summer Chinook Salmon

McCALL SUMMER CHINOOK HATCHERY

Binary Code: 10/24/58 Freeze Brand: L.D. T-1

Purpose: Hatchery Evaluation

Investigator: Fred Partridge, IDFG

Work dates: 9-14 February 1983

Stock: South Fork Salmon Brood Year: 1981

Size at release: 20.3/1b

Release site: S. Fk Salmon River at Knox Bridge

Release date: 4-7 April 1983

	Tagged	<u>Freeze Branded</u>
Total Marked:	62,188	24,862
Total Mortality:	23	9
Mark Loss (%):	1,565	(2.5)
Marked Fish Released:	60,600	24,853
Total Group Release:	62,165	
Total Hatchery Release:	183,896	

Comments:

Fish handled well and were in excellent condition. A sample of 118 fish showed 3 untagged. The sample was taken on 23 March 1983, 37 days after tagging. All fish were hauled by truck to the South Fork Salmon River for release.

DWORSHAK NATIONAL FISH HATCHERY

Binary Code: 5/13/52

Purpose: Progeny study-Control, System I

Investigator: John Varley, USFWS

Work dates: 24-25 January 1983

Stock: Dworshak B Brood Year: 1982 Size at release: 6.5/1b.

Release site: N.Fk. Clearwater R. Release date: 19 May 1983

Total Marked: 38,988
Total Mortality: 3,671
Mark Loss (%): 2,767 (7.8)
Marked Fish Released: 32,550
Total Group Release: 40,914
Total Hatchery Release: 365,728

Comments:

Fish health during the marking operation was poor. This group had been infected with IHN early in development. Because of the poor fish health, further marking for the study was cancelled until a later date. A tag retention check was taken by Department personnel on 18 March. They found 27 untagged in a sample of 344 fish. Several different types of problems during the tagging operation contributed to the higher than normal tag loss.

The total hatchery release indicates the total number of fish released from System I. Total hatchery steelhead production was 2,144,947.

DWORSHAK NATIONAL FISH HATCHERY

Binary Codes: 5/13/49 - 1 salt

5/13/50 - 2 salt 5/13/51 - 3 salt

Purpose: Progeny study

Investigator: John Varley, USFWS

Work dates: 21-24 March 1983

Stock: Dworshak B Brood Year: 1982 Size at release: 5.4-5.8/lb

Release site: N.Fk. Clearwater Release date: 18 May 1983

	<u>5/13/49</u>	5/13/50	5/13/51
Total Marked:	24,964	30,781	31,374
Total Mortality:	305	671	1,258
Mark Loss (%):	84 (.34)	110 (.36)	291 (.98)
Marked Fish Released:	24,575	30,000	29,825
Total Group Release:	25,468	32,160	42,035
Total Hatchery Release:	-	365,728	

Comments:

This study was designed to test the hypothesis that the length of stay in the ocean is a genetic trait. Each lot of fish were offspring of parents that had spent the same amount of time in the ocean and had returned to the hatchery. All three lots of fish were infected with IHN early in development. Consequently, there were some deformed individuals in each lot. However, the fish in the 1-salt lot appeared healtier and had fewer deformities. The 3-salt had the highest incidence of deformities. There was 0.5-1.0% deformities in the 3-salt lot. All three lots of fish were to be tagged in January along with the control, but poor fish health at that time prevented the tagging operation to continue. There was also a considerable range in fish size. Though no fish were rejected, it was necessary to hand sort the fish to size and tag the different sizes on separate machines. On the basis of machine count, 21.6-23.0% of the fish tagged were less than 140 mm in length with 95% of those less than 130 mm in length.

Tag retention checks were taken by Department personnel on 16 May. The sample taken of the 1-salt progeny showed 1 without a tag in a sample of 292. The samples taken of the 2-salt and 3-salt progeny showed 1 untagged in a sample of 275, and 3 untagged in a sample of 307 respectively.

The total hatchery release figure is the total number of fish released from System I. System I utilizes a newly installed sand filter during the water treatment process. The total steelhead production from all three water systems at Dworshak totalled 2,144,947.

HAGERMAN NATIONAL FISH HATCHERY

Binary Code: 10/24/60 Freeze Brand: L.D. 12-1 Purpose: Stock evaluation

Investigator: Fred Partridge, IDFG

Work dates: 10-11 January 1983

Stock: Pahsimeroi B (Dworshak) Brood Year: 1982

Size at release: 3.6/lb Release site: E. Fk. Salmon River

Release date: 12-13 April 1983

	Tagged	Freeze Branded
Total Marked:	42,191	20,302
Total Mortality:	3,327	494
Mark Loss (%):	1,264 (3.2)	
Marked Fish Released:	37,600	19,808
Total Group Release:	201,587	
Total Hatchery Release:	227,760	

Comments:

The health and condition of the fish was good to excellent during the marking operation. However, hatchery personnel noted that this stock of fish were continually outperformed by the "A" stock and suffered higher losses throughout the rearing cycle (Tom Shaw, pers. comm.).

Prior to marking, fish were hauled by truck to raceways which were accessible with the tagging trailer. These fish were later handled again on 17-18 March for branding. Personnel taking a tag retention check during branding found 13 without tags in a sample of 400 fish.

The group release figure includes 162,723 unmarked "B" stock also released into the East Fork Salmon River. There was also a group of fin clipped "A" stock released at the same location. The total hatchery release includes 26,173 fin clipped "B" stock released into the upper Salmon River.

HAGERMAN NATIONAL FISH HATCHERY

Fin Clip: Right ventral - "B" stock

Left ventral - "A" stock

Purpose: Stock evaluation for Salmon River releases

Work dates: 13-14 January 1983

Stock: Pahsimeroi Brood Year: 1982 Size at release: 3.6/lb.
Release site: Upper Salmon River-B Release date: 18-21 April 1983-B

E. Fk. Salmon River-A

11-12 April 1983-A

	Right ventral	Left ventral
Total Marked:	28,825	31,798
Total Mortality:	2,652	450
Marked Fish Released:	26,173	31,348

Comments:

Both groups of fish were in good to excellent health condition. Some deformities were noticed and fish size varied greatly. However, all fish were used regardless of size. During rearing, the "A" stock consistently outperformed the "B" stock and had lower mortalities (Tom Shaw, pers. comm.). The "A" stock group was released in the East Fork Salmon River along with a coded-wire tagged group of "B" stock fish. The "B" stock group was released into the upper Salmon River with two coded-wire tagged groups of "A" stock fish.

HAGERMAN NATIONAL FISH HATCHERY

Binary Code: 5/13/34 Freeze Brand: R.D. 12-3

Purpose: Stock evaluation and size at release study

Investigator: Fred Partridge, IDFG

Work dates: 9-10 December 1982

Stock: Pahsimeroi "A" Brood Year: 1982 Size at release: 5.3/1b.

Release site: Upper Salmon R. Release date: 18-20 April 1983

	Tagged	Freeze Branded
Total Marked:	40,924	20,447
Total Mortality:	3 80	54
Mark Loss (%):	1,419 (3.5)	
Marked Fish Released:	39,125	20,393
Total Group Release:	40,548	
Total Hatchery Release:	196,663	

Comments:

Fish were in good to excellent condition and varied greatly in size. These fish, though tagged in early winter, were not freeze branded until 16 March 1983. A quality check taken during branding showed 14 untagged in a sample of 400 fish. These fish were released in the upper Salmon River with a tag group of large size "A" stock for size-at-release comparisons and a fin clipped "B" stock group for stock evaluation purposes. These fish were held back on feed at different times during their rearing period and were smaller than their counterparts. The total hatchery release includes all releases of "A" stock fish from Hagerman NFH made into the Salmon and Pahsimeroi rivers. There were also additional releases of "B" stock fish.

HAGERMAN NATIONAL FISH HATCHERY

Binary Code: 5/13/33 Freeze Brand: R.D. 12-1

Purpose: Stock evaluation and size at release studies

Investigator: Fred Partridge, IDFG

Work dates: 7-9 December 1982

Stock: Pahsimeroi "A" Brood Year: 1982 Size at release: 2.1/1b

Release site: Upper Salmon River Release date: 18-20 April 1983

	Tagged	Freeze Branded
Total Marked:	40,843	20,174
Total Mortality:	264	50
Mark Loss (%):	1,704 (4.2)	
Marked Fish Released:	38,875	20,124
Total Group Release:	40,579	•
Total Hatchery Release:	196,663	

Comments:

This group was used in a size-at-release study and reared to a large average size. Fish were in good to excellent condition, but there was a wide range of size. These fish were tagged in early winter but were not freeze branded until 16-17 March. A tag retention check taken during the branding operation showed 25 untagged in a sample of 600 fish. This group was released into the upper Salmon River with a tagged group of small size "A" stock fish for size-at-release comparisons and a fin clipped "B" stock group for stock evaluation purposes. The total hatchery release is the total number of "A" stock fish released from Hagerman NFH into the Salmon and Pahsimeroi rivers and does not include any "B" stock releases.

NIAGARA SPRINGS HATCHERY

Freeze Brand: R.D. 12-4

Purpose: Evaluate release at Hells Canyon Dam

Investigator: Kent Ball, IDFG

Work dates: 19 March 1983

Stock: Pahsimeroi "A" Brood Year: 1982 Size at release: 3.0/1b.

Release site: Snake River Release date: 20 April 1983

Total Marked: 12,136
Total Mortality: 112

Mark Loss:

Marked Fish Released: 12,024 Total Group Release: 92,750 Total Hatchery Release: 635,140

Comments:

Fish health in general was good to excellent. Some deformities were present and attributed to an earlier epizootic of IHN. All fish were hauled by truck to below Hells Canyon Dam for release. The total hatchery release includes Pahsimeroi River and Hells Canyon "A" stock releases and East Fork Salmon River "B" stock releases.

NIAGARA SPRINGS HATCHERY

Freeze Brand: L.D. 12-4

Purpose: Identification, timing

Work dates: 18-19 March 1983

Stock: Pahsimeroi "A" Brood Year: 1982 Size at release: 3.4/lb

Release site: Pahsimeroi River Release date: 19 April 1983

Total Marked: 20,892
Total Mortality: 76
Marked Fish Released: 20,816
Total Group Release: 496,140
Total Hatchery Release: 635,140

Comments:

Fish health in general was good to excellent. A higher occurrence of deformities was noted and attributed to an earlier IHN epizootic. Some precocial maturity was also observed. All fish were hauled by truck to the Pahsimeroi River during the period of 4 April to 3 May with all marked fish going on one truckload 20 April. The total hatchery release includes "A" stock released to Hells Canyon and "B" stock released to the East Fork Salmon River.

Table 1. Summary of the National Marine Fisheries Service 1983 marking operations at Dworshak National Fish Hatchery, Idaho.

Brand	Marked fish released	Unmarked release	Date released
L.A. W-1	33,178	113	4-20-83
R.A. F-1	30,341	165	4-20-83
R.A. Z-1	20,658	133	4-20-83
L.A. W-2	32,236	8,128	5-3-83
R.A. F-3	31,956	1,378	5-3-83
R.A. F-2	32,465	2,242	5-3-83
R.A. F-4	30,751	219	5-25-83
L.A. W-3	31,906	2,703	5-24-83
	251,491	15,081	
	L.A. W-1 R.A. F-1 R.A. Z-1 L.A. W-2 R.A. F-3 R.A. F-2 R.A. F-4	Brand released L.A. W-1 33,178 R.A. F-1 30,341 R.A. Z-1 20,658 L.A. W-2 32,236 R.A. F-3 31,956 R.A. F-2 32,465 R.A. F-4 30,751 L.A. W-3 31,906	BrandreleasedreleaseL.A. W-133,178113R.A. F-130,341165R.A. Z-120,658133L.A. W-232,2368,128R.A. F-331,9561,378R.A. F-232,4652,242R.A. F-430,751219L.A. W-331,9062,703

APPENDIX

Key to Abbreviations used in Computer Listing of Tagging Operations

DRN = Drainage

SA = Salmon River

CL = Clearwater River SN

= Snake River

CO = Columbia River

Mark Code: AD = Adipose clipped FB

= Freeze brand FC = Fin

clip

FL = Flourescent dye JT

= Jaw tagged

Purpose: Read Code in 2 letter increments

ID = Identification - Contribution

MH = Migration and homing

TN = Transportation

CC = Cold conditioning SR =

Size at release CN =

Control

AR = Age at release

HE = Hatchery evaluation RL

= Release location

ST = Stock identification

PA = Pahsimeroi A PB

= Pahsimeroi B DB =

Dworshak B

FL = Fall

SP = Spring

TR = Time at release DT

= Diet

OM = Oregon Moist Pellet DR

= Dry type

EA = Early release LT

= Late release

TM = Time of marking

MO = Morpholine

Number (14,30) = Days of a test VC =

Vaccinated

VB = Vibriosis

Mig Mode = Migration Mode

NATL = Natural

TRNL = Trucked then natural

BARG = Barge TRCK = Truck

MISC = Combination of methods

NLTR = Natural then trucked

NLBG - Natural then barged

IDAHC D	EPARTMENT	CF FISH A	NU G	WE CODED MIKE	IAG KEL	EASES!	1910-	19034							
DATA	SPECIES	FATCHERY	DRN	RELEASE SITE	REL DATE	NO/ LB	PARK CODE	BRECD YEAR	PURPOSE	MIG MCCE	NUMBER TAGGEC	MORT	PCT TAG LCSS	TAGS REL	GROUP RELEASE
0123456745789025679012345673449121123567344561235785034567885 222222222222222355555555555555555555	21714HD 22717HHD 22717HHD 22717HHD 22717HD 20717HD 207	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	SA SA CL CL	HAYCEN CREEK PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIME CREE R HAYCEN L HONON SFK SALRAR SFK SALRAR CREEK R SFK SIMERAR CREEK R SFK SIMEROI R SFK SIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI R PAHSIMEROI C LEAR CCLEAR R CCLEAR CREEK R CCLEAR CCLEAR CCLEAR CCLEAR CCLEAR CCLEAR CCLEAR	99999999990000022222222222222222222222	003141657444650 414342 1112 8554 1141657444408554		88888778777777777777777777777777777777	A RR N RNANDARRADDDD DAGM THE STARKHEELSSETTHIAD DAGM THE STARKHEELSSETTHIAD DAGM THE STARKHEELSSETTHIAD DAGM THE STARKHEELS AT ANY NOR RELIAND RESETTING THE STARKHEELS AT A REAL TO THE STARKHEELS AT A RAND THE STARKH	GLLLLLIGILLLKCLLLLLLLLLLLLLLLLLLLLLLLLLL	### ##################################	640007790801910826557950087106528150603113666776113457774080407750000447760500044776050004477605000447760500044776050004477605000447760500044776050004477605000447760500044776050004477605000447760500044776050004477605000447760500044776050004477605000447760000447760000447760000447770000447700004477700004477700004477000044777000044700004470000447000000	2114440C554C2C2C2C2C2CC59	00000000000000000000000000000000000000	71100264089143226515641176318988354003588405360033250604816302506048425225309438435141776748518988825406265440697362651776577485252762988276298827629882554118988854406976376587658766577485658765577485554109362406265882576298825541185541093624062658644350626586265476482626265445165988255486442822284350627658428511112684564282626544564286428642843664286428642864286428642864286428644286486428648642864864286486428648648648648648648648648648648648648648

DATA	SPECIES	FATCHERY	DKA	RELEASE SITE	REL DATE	NO/ LB	MARK CUDE	BROOD YEAR	PURPOSE	MIG MCCE	NUMBER TAGGED	MORT	PCT TAG LOSS	TAGS REL	GROUP RELEASE
79C12345/2345/2389567867123189G126789901231238145224151566557 CCC11111111111111122225566111112222355144555514456557 CCC1111111111111111111222255661111122233334444555514456111115564131 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	######################################	KKKKKK K AAAAAAAAPRR AAAAAAAAPRR AAAAAAAAPRR AAAAAAAA	OCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	LERRRR E EKK RRRR E EKK KK RRRRRR E LKKK RRRRRR E EKK RRRR E EKK RRRR E ELLERRRR DK T RR EBBANGLAMBERGIAA DELERRRR ELAN RELAN BELLAN BE	7777778890011000001111111111111111111111	7857893074444776665766864153699444437454989783830888303487 31211111 2221 35311111111 2 22222 2 222	FFFFFFFFAFFAAFAAAAAAAAAAAAAAAAAAAAAAAA	11111111111111111111111111111111111111	REL RE R TONNO DOONERTH ON DO B R LOCKENDE BENEAR A RONNO DOONERTH ON DO B R LOCKENDE BENEAR VIOLENCE BENEAR A RONNO DOONERTH DO DO B R LOCKENDE BENEAR VIOLENCE BENEAR A RONNO PRO REPORTED BENEAR THE REPORT OF TH	KGLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	\$0178050986328500656647760811751463451488088052548681246 735281586812198990688877422673388683449328294045185021889704 8 \$592762388162198990688877422673388663449328294045185022116189704 8 \$336623666666441464444445554664445554455544444444	53357260054367040846296743612474500001085884400602158841374444 6321790233479811566484976733924450761134228722249138 922033 11 233	75505364099077C54G7C0CGCGC5144443555M9444C337CCM555005263724113221344432277C54G7C0C323333388845512111166603414222718C0423724	9446612550000000000000000000000000000000000	478826150500624504077002274783016401303649255567650 178.5274256657844804700770022744783557133406403523665788448047007700227443355713340640355567650 188.527462458809470077002274433571334064236935672298692 188.527445880947007700274433571334064236925672298692 188.52744583644493555672298692 188.52744583644493555672298692 188.5274458364443413554444 189.56767650 189.5676760 189.567

7

Title: Anadromous Fish Marking and Recovery (Recovery Operations) ABSTRACT

Returns were compiled for 36 tag groups, which were released in 1977-79. Many of these groups could not be used to evaluate contribution because they had insufficient recoveries or they were not representative of the hatchery's production.

The total number of tag recoveries doubled in 1982, exceeding 7,000. Most were from steelhead. Spring chinook salmon tag recoveries remain low.

Author:

Rodney C. Duke Senior Fishery Research Biologist

INTRODUCTION

Since 1976, the Idaho Department of Fish and Game has been tagging salmon and steelhead juveniles to determine relative contribution and to evaluate research projects. The major age components (one-ocean, two-ocean, three-ocean) of tagged fish released prior to and including 1979 have returned to hatchery facilities.

Tag returns prior to and including 1978 outmigrations are complete. For the 1979 outmigration, some tag returns may still be forthcoming from downriver agencies and four-ocean adults.

A substantial delay has existed in the return of tags from outside agencies. In the past two years, this has improved and most tags are sent within a few months of recovery. However, the dissemination of information regarding sampling rates is still a problem. To date, only tag recoveries and sampling rates through 1978 have been published by the Regional Mark Processing Center. This has made it difficult to publish conclusive contribution estimates. However, most of Idaho's recoveries, exclusive of fall chinook recoveries, are from the Columbia River fisheries. Sample rates for these fisheries are available from individual investigators. I have compiled these sample rates in the Appendix. Sample information from the ocean recoveries is more difficult to obtain since they are re-ported at each port of landing and stratified by type of gear and weekly catch period. Because there are relatively few ocean recoveries made for Idaho tag codes, it is difficult to locate all of the pertinent data from individual investigators. However, it is not cost effective to delay research conclusions for a few tag recoveries. As a general rule, the sample rate is approximately 20% for ocean fisheries. By utilizing unpublished and assumed sampling rates, individual investigators can expand the tag recoveries and draw final conclusions on various studies where there are limited ocean recoveries.

At its inception, the coded-wire tagging project was designed to assess contribution to fisheries. During the early years, survival of tagged fish was minimal, resulting in very few tag returns and consequently, contribution estimates were not feasible or reliable. In recent years, survival of tagged fish has been much greater and the number of tag recoveries has increased dramatically. The program has also assisted fish cultural studies. These studies assess hatchery and management techniques and are not representative of the normal hatchery product and, therefore, are not expanded to represent the entire hatchery release. This has resulted in limited information from which to draw conclusions about Idaho's contribution to the various fisheries. Those studies providing contribution information are analyzed in detail herein, as are unique studies. The majority of the studies need analysis by individual investigators. Expanded tag recoveries are presented to help facilitate the investigators' analysis.

TECHNIQUES USED

Snout Recovery

At the time of tagging, all tagged fish were adipose clipped. This clip is retained throughout the fish's life and identifies the adult as a coded-wire tagged fish. When a clipped adult is recovered, the snout is removed and the tag extracted.

Snouts are recovered in various fisheries, at hatcheries, and on spawning-ground surveys. For reporting and computer-coding purposes, recoveries include the following types and groupings:

- 1. Hatchery rack (Hatch Rack) includes all recoveries made at a hatchery facility during normal spawn-taking activities. Those tags recovered from mortalities occurring at the facility prior to spawning are also included in this category.
- 2. Experimental (Experiment) includes those fish caught in various evaluation studies. Most recoveries of this type occur in the Oregon test fisheries in the lower Columbia River. The test zones follow the designation used for commercial landings. Generally, only one test period is performed. This is generally on even days during the month of April. Test locations are above the Williamette River at river mile 127 (Corbett-Zone 4) and below the Williamette River (Zone 2). Other test fisheries have been conducted in May and September. These tests give an indication of the strength of the upriver runs. This category may also include tags recovered from fish which die during weiring, counting, or passage procedures.
- 3. Sport fish (Sport) includes those recoveries made at the following locations:
 - A. Ocean all tags recovered from fish taken in the ocean sport fisheries off the coasts of California, Alaska, Canada, Oregon, or Washington are included in this category.
 - B. Columbia River sport included in this category are all tags recovered from fish taken in the Columbia River sport fishery. Almost all recreational fisheries occur below Bonneville Dam. This area has been divided into ten sections by Washington Department Fisheries (W.D.F.) and Oregon Department of Fish and Wildlife (O.D.F.W.).
 - C. Idaho sport all tags recovered from the Idaho sport fishery are included in this category. Recoveries may be from a creel census or check station. However, voluntary returns of tags from anglers are not included, but are categorized below as "voluntary" for expansion purposes.

- 4. Troll fisheries (Troll) includes all ocean commercial troll fisheries. All coastal states and Canada have commercial troll fisheries.
- Spawning ground (Spawn Gr) includes tag recoveries made by personnel while surveying established stream sections for the purpose of evaluating adult spawning.
- 6. Gill net (Gill Net) includes all recoveries made from a legal commercial fishery deploying gill nets. The main gill net fishery is in the Columbia River, although a few ocean fisheries exist. The Columbia River gill net fishery is below Bonneville Dam and is divided into five zones.
- 7. Indian gill net fishery (Indian Gill) includes all tags re-covered from fish taken legally in the commercial fishery above Bonneville Dam. This area is designated as the Zone 6 fishery and is fished by the four Columbia River treaty tribes.
- 8. Indian ceremonial, treaty, and subsistence fisheries (Indian CTS) includes all tag recoveries from fish taken by members of any tribe whether the fishery is classified for subsistence or ceremonial purposes. The tribe catching the fish will be listed as the recovering agency regardless of the agency making the recovery;i.e., in Idaho, the recovering agency will be Nez Perce, Shoshone-Bannock, etc., even though Department personnel made the recovery.
- 9. Illegal harvest (Illegal Har) includes those tags recovered from illegally-taken fish as a result of normal or covert enforcement activities. These recoveries cannot be expanded for contribution purposes.
- 10. Voluntary (Voluntary) includes those tag recoveries from fish caught in Idaho during a set season and which were not retrieved as part of a creel census or check station count. Heads recovered during law enforcement checks when such checks are not part of a creel census are included in this category. These recoveries are not expanded for contribution purposes.
- 11. Seine (Seine) includes those tags recovered from fish taken for commercial purposes by seining on the high seas.
- 12. Indian troll fishery (Indian Troll) includes those tags recovered from the commercial troll fisheries conducted by Washington Indian tribes. The ocean fishery is located in the Cape Flattery area and can be a year-round fishery. Information is only available since 1980.
- 13. Net (Net) includes those tags recovered from commercial net fisheries in the ocean where the type of net is not known. Most of these recoveries are from Canada.

14. Groundfish (Groundfish) - includes tags recovered from fish taken incidentally in bottom trawls being used to catch various species of botton (ground) fish.

All of these fisheries are sampled periodically for adipose-clipped fish. The coastal states also encourage voluntary returns from the sport fisheries. In the past two years, the Idaho steelhead regulations were printed with information regarding the coded-wire tagging program and a request for voluntary returns from the anglers. Guidelines to Department personnel for the return and handling of heads or snouts were issued from the Director's office in 1982.

Snouts are collected at hatcheries during spawning operations. Each fish that enters the hatchery is examined for an adipose fin clip. When the fish is spawned, the snout is removed, bagged and data recorded on sex, length, date taken and any abnormalities observed.

Spawning ground surveys were conducted in the upper Salmon River and South Fork Clearwater River drainages. Department personnel examined carcasses for adipose fin clips. Data collected were the same for these fish as those recovered at the hatchery, with the addition of whether or not the fish had completed spawning.

Tag Extraction

Tags were extracted from the snouts at our tag recovery laboratory. Upon extraction, the code was read and the data recorded. All color-coded-wire tags used by NMFS were returned to them for verification. Tag codes with an agency code other than 5 or 10 were returned to the originating agency. Data for all binary-coded tags were recorded and entered into the computer program.

Computer Program and Report Generation Data

Format

All information was programmed into the computer using the Statistical Analysis System (SAS) program. The recovery data from the coded-wire tagging program are divided into three sections:

- 1. Adult Recovery Information. Information contained herein includes the name of the recovering agency, the means of recovery, the location of recovery, physical data about the fish and a file number where the tag is located for future reference. This information is also grouped and can be located by data code, the means of recovery, or the location of the recovery. Within each of these groupings, the tags are summarized by data code and by year of return. Totals are given for each data code, location, or type of recovery where applicable.
- 2. Juvenile Recoveries. The same information and groupings used in the adult recovery procedure are available for juvenile recoveries. Juvenile recoveries are obtained from research projects that sacrifice fish. Most recoveries come from the various hydroele ctric

- projects, estuary sampling and high seas sampling programs. Not all juvenile information is presently on the computer.
- 3. Charting. This section plots length-frequency information from returning adults. Information is grouped by various parameters such as sex, data code, release year and species; however, length information is often received in both total length and fork length for the same species. Therefore, some inaccuracy does exist until all information can be standardized. A standard measuring policy was adopted to alleviate this problem. This report will not include the length-frequency information, but individual investigators can request the information.

Report Generation

The adult recovery portion of the computer program has been modified to include a report-generation portion. With this format, it is possible to generate a photo-ready report suitable for inclusion into the annual report. The format displays the same adult recovery information as the data organization format, except in a more readable and reduced manner. The adult recovery information is listed by hatchery grouping of the tag codes with the hatcheries listed alphabetically. This format allows tag groups to be dropped from the report after a final analysis. Those tag groups released in 1976 and 1977 and reported as final in last year's report will not be repeated in this or subsequent reports. The raw data is stored on tape for future reference as needed.

Estimation Procedures

Estimating total fishery contributions for Idaho stocks is complex. Idaho stocks are inland and contribute to several fisheries and come under the jurisdiction of several agencies before returning to Idaho. Individual agencies have differing methods of calculating expansion factors. Therefore, my estimates are basically the result of several different estimation procedures applied to various fisheries. Confidence limits and variances on the estimates I receive are generally not available.

I estimated total contribution by adding the estimated number of fish taken in the various recovery areas. Basically, there are three recovery areas: the ocean, the Columbia River and Idaho. Within each, however, are several components, each with its own unique circumstances and, consequently, sampling and estimating procedures.

The ocean recovery area includes:

- A. Recoveries in both sport and commercial fisheries from the four coastal states and Canada;
- B. Japanese fisheries;

- C. Japanese research vessels; and
- D. Illegal and incidental harvest.

The Columbia River recovery area includes:

- A. Non-Indian commercial gill net fishery;
- B. Indian commercial gill net fishery;
- C. Indian subsistence and ceremonial fisheries:
- D. Recreational fisheries;
- E. Upriver mortality due to dam passage;
- F. Straying to hatchery racks along the Columbia River;
- G. Straying to spawning grounds in upper Columbia River; and
- H. Illegal harvest. The Idaho

recoveries include:

- A. Sport fishery;
- B. Indian treaty harvest;
- C. Escapement/bypass;
- D. Hatchery rack or spawning ground recoveries; and
- E. Illegal harvest. To obtain estimates within these categories, I multiplied the total

number of observed tag recoveries within a component or fishery by an expansion factor. This factor is calculated simply:

For some fisheries, expanded estimates were obtained from published reports of the Pacific Marine Fisheries Commission (1981, 1982). Recent expansion estimates for the treaty and non-treaty commercial fisheries, the lower Columbia River sport fishery and the Deschutes River sport fishery were obtained by personal communications with Paul Hirose, Steven King and Robert Lindsay, respectively.

In studies suitable for determination of contribution to fisheries, I multiplied the expanded recoveries in each component by the adult unmarked-tomark ratio as determined by spawning records to obtain an estimated hatchery contribution to that component. I then summed all components to obtain a total hatchery contribution for that particular brood year.

In studies where the group was not representative of the hatchery production, the summation of expanded recoveries is the contribution of only that group.

In multiple comparison studies, some control groups can be used to evaluate a hatchery's production. In this situation, I made a total contribution estimate of the hatchery by multiplying the expanded recoveries from the control group by the adult unmark: mark ratio to obtain a total hatchery contribution of unmarked fish. I then summed the expanded recoveries from the various components of the experimental groups. These recoveries were then added to the total hatchery contribution of unmarked fish to obtain a total estimate from the hatchery.

To compare differences between two or more experimental groups, I used a Chi square test (Sokal and Rohlf 1969).

RESULTS

Contribution Estimates

Spring Chinook Salmon Hayden Creek

1979 - Data Code 5/4/54

Survival of chinook from Hayden Creek was low in prior years and this group was no exception. From a total release of 58,200 tagged fish, only 16 tags were recovered. Two were recovered in the lower Columbia River tribal fisheries; the remainder at the hatchery spawning rack. The smolt-toadult survival of tagged fish back to the hatchery was only 0.02%.

Kooskia National Fish Hatchery

```
1978 - Data Codes 10/3/29 - Age 0
10/3/30 - Age 1+
1979 - Data Codes 5/4/26 - Age 0, hatchery released
5/4/27 - Age 0, transported
```

Four tag groups were used to evaluate fish reared to Age 0 and Age 1+ at release time. Table 2 summarizes the expanded tag recoveries and relative contribution for these groups. The total number of tag returns are in-sufficient to make statistically reliable contribution estimates for the age-at-release experiments. The low recoveries are representative of the overall poor survival of the 1978-79 hatchery releases. The smolt-to-adult survival back to the hatchery for the 1978 outmigration was only 0.012%. The smolt-to-adult survival of both Age 0 and Age 1+ tagged fish for that year was only 0.005%.

The smolt-to-adult survival back to the hatchery for the 1979 outmigration of both Age 0 and Age 1+ fish was 0.033%, or 2.75 times better than the 1978 outmigration. However, Age 0 tagged fish from the 1979 release returned at only a 0.004% ratio, which is less than the previous year.

Summary of expanded tag recoveries of Age O and Age I+ spring chinook salmon released from Kooskia National Fish Hatchery, Idaho, 1978-1979.

		latch lack	Ne		G:	ndian Indian Gill Cere		<u> </u>	. Utilet		Total ^C	
	#	%	#	%	#	%	#	%	#	%	#	%
1978												
Age O	1	100.0									1	100.0
Age 1+	21	65.6	3	9.4	6	18.8	2	6.3			32	100.0
<u>1979</u>												
Age 0 Hatch	3	100.0									3	100.0
Age 0 Trans.	1	25.0							3	75.0	4	100.0

 $^{^{\}rm a}_{\rm b}$ Sampling information not available. Expansion factor=1. Recovered at Pelton Dam Fish Trap, Oregon. Total percent not exact due to rounding.

Information from 1979 suggest no benefit for the transporting of fish, which, in fact, may cause homing problems. Though the returns are few in number, all recoveries of the naturally migrating group were made at the hatchery. Only one of the four recoveries from the transported group was recovered at the hatchery. The other three were recoved at Pelton Dam, located on the Deschutes River, Oregon. Mainstem water temperature is not believed to be the reason for entering the Deschutes, since they should have been in Idaho prior to their capture date in late August, and other fish did return to Kooskia during the same time period.

Mackay Fish Hatchery 1979 -

Data Code 10/3/48

In 1979, a total of 122,000 tagged salmon were released into the upper Salmon River. These fish were large, averaging 20.6/lb with some approaching 10/lb. Several smolts from this tag group were captured when migrating up-stream late in the summer of 1979. It is not possible to compute a smolt-toadult survival ratio since there was no permanent adult trapping facility established until two-ocean fish returned. Even then, not all fish were captured.

A total of 63 recoveries were made from this group. This group contributed significantly to the lower Columbia tribal fisheries. Though no sampling information is available for the 3 tags recovered in the Yakima ceremonial fishery, sampling data is available for the 6 Indian gill net recoveries. If I assume a 50% sample rate for the Yakima Tribe, then 17 tagged fish were taken in these fisheries, or 24% of the total expanded recoveries were returned from these fisheries. The remaining recoveries were recovered at trapping facilities or on spawning ground surveys.

Rapid River Fish Hatchery 1978

- Data Code 10/2/14

The 1978 release of marked fish was used to determine hatchery contribution. Forty-three recoveries were made from this group. Two were recovered (3 after expansion) from the Indian commercial and ceremonial fisheries in the Columbia. The remaining 41 were recovered at the hatchery spawning rack. The total smolt-to-adult survival of marked fish was 0.032%.

1979 - Data Codes 10/4/15, 10/4/24

The 1979 smolt release from Rapid River was represented by the largest mark effort designed to assess the contribution of Idaho's spring chinook salmon. A total of 249,257 tagged fish were released. During the years of expected return, a total of 228 tags were recovered. Though this is more than in previous years, the overall smolt-to-adult survival back to the hatchery of tagged fish was only 0.07%. The smolt-to-adult survival of all fish back to the hatchery was 0.14%. Marked fish apparently survived only half as well as the normal hatchery product. Based on this assumption, I calculated the adult contribution to the various fisheries. Table 3 summarizes the contribution of the 1979 outmigration during the expected

38

Table 3. Summary of tag recoveries (expanded) for spring chinook salmon released from Rapid River Hatchery, Idaho, in 1979.

		Columbia			Indian					
	Ha tc h ^C	River sport	Zone 1-5 gill net	Zone 6 gill net	Cere- monial ^a	I da ho ^d	0cean	Ехр	0ther	Total
0bserved	179	3	2	12	18	0	1	10	3	228
Expanded recoveries	179	35.6	2.6	21.8	18		5 ^b	10	3	271.
Estimated fishery contributions	-	817	60	501	414	3,165	114	10	3	5,084
% of total ^e	-	16.1	1.2	9.9	8.1	62.3	2.2	0.2	0.1	100
Exploitation of available fish		9.	7	11	1.2	43.6	1.2			

aNo expansion possible because of the lack of sampling information from the Columbia tribal fisheries. Assumed 20% sample rate.
Actual hatchery returns for 1980, 1981 and 1982 based on length frequency data.
Indian harvest determined by age class compositions for expected years of returns as estimated by

Coon (pers. comm.).
Total not precise due to rounding.

years of recovery. In estimating the contribution, it was necessary to assume a 20% sample rate for the one-ocean recovery made by Canada. I could not expand the Indian ceremonial fishery data because of the lack of sampling information supplied by the Columbia River Tribes. The estimated contribution for this fishery should be considered low and may be 2-3 times higher.

Red River Rearing Pond

1978 - Data Code 10/3/28

A total of 37,300 tagged smolts was released in the fall of 1978 to evaluate contribution. A total of 10 recoveries was made; four of these from the lower Columbia River fisheries. The remaining six were recovered on spawning ground surveys. Though the number of tag returns is too few to calculate contribution, the rearing pond did contribute significantly to the escapement of chinook salmon into the South Fork Clearwater drainage (Lindland 1983).

Summer Chinook Salmon

McCall Hatchery

1978 - Data Code 10/3/23

A total of 79,300 tagged fish were released in 1978 to evaluate contribution from McCall Hatchery. The smolt-to-adult survival of tagged fish was better than in previous years but remained extremely low at 0.090%. As a result, the total number of tag recoveries is inadequate to make meaningful contribution efforts.

A total of 90 tags were recovered from this group. Most (82.2%) were recovered from adults caught at the South Fork Salmon River trap. The remaining 17.8% or 16 tags were recovered outside of the state of Idaho. Six of the sixteen tags were recovered at downriver hatchery spawning racks indicating either homing or environmental problems. In 1979, one fish was taken in the lower section of the Deschutes River sport fishery. In 1980, no fish were recovered in the Deschutes; however, one was recovered at the Cowlitz Fish Hatchery. In 1981, five recoveries were made on the Deschutes - four at Pelton Dam and one at Shearers Falls fish trap. All recoveries were made during spawning operations in August and early September.

Three tag recoveries were made by Canada in their troll fishery. These represent the first ocean recoveries of summer chinook on this project. These fish were all 4 years old (2-ocean) and were caught in mid-June.

The Columbia River Indian fisheries also took several summer chinook. From the return data, 37.5% of the out-of-state tag recoveries came from these fisheries.

1979 - Data Code 10/3/25

In 1979, a total of 116,200 tagged fish were released to evaluate contribution. The final rearing of these fish took place at Mackay Fish Hatchery where the water temperature remains about 52°F. At release, these fish averaged 13.8/lb with many approaching 10/lb and larger. The smolts did not migrate well as evidenced by the recovery of tags from large smolts

migrating upstream in late summer of the same year. One tag was also recovered in the Deschutes sport fishery from an 11-inch (281 mm) smolt. Low adult returns were expected. However, 111 tags were recovered from this group as adults. This is a smolt-to-adult survival of . 095%.

All tags except one were recovered at the adult trap on the South Fork Salmon River. The age composition of tagged fish at return included 55% jacks (1-ocean), 35.1% 4-year-old (2-ocean) and 9.9% 5-year-old (3-ocean).

Fall__Chinook

Hagerman National Fish Hatchery

1979 - Data Codes 5/4/20, 5/4/21

A total of 195 tags have been recovered representing these two tag groups. Expansion of the data is not yet possible because of the large number of tags recovered in ocean fisheries for which sampling rates are not available to us. At present, 76.4% of the tag recoveries were made in outside fisheries. Only 23.6% of the tags were recovered during spawn taking operations. After expansion, the contribution to various fisheries may approach 80-90%.

Summer Steelhead

Dworshak National Fish Hatchery

1977 - Data Codes 10/13/7, 10/13/9, 10/13/10, 10/13/11, 10/13/12, 10/13/13 - Homing and migration studies

The Idaho Cooperative Fishery Unit used six groups of tagged fish for various homing and migration studies. Mortality was high prior to release with a range of 3.5% - 48.8% for the six groups. The average mortality for the six groups was 36.7%. The highest mortality was in the control group, the only group representative of normal production. Consequently, one of these experiments is of value for contribution purposes. Table 4 is a summary of the recoveries after expansion.

Though the sample size is small, tag recovery data indicates barging is better than trucking. However, in both groups more recoveries were made in the lower Columbia River fisheries than at the hatchery. Most of the recoveries were in the spring of the year, indicating homing related problems. The data suggests trucked fish experienced a higher rate of disorientation.

In the Age I vs. Age II study, Age II tagged fish returned at a significantly higher rate than Age I fish. However, mortality prior to release was low (3.5%) for the Age II fish and high (34.3%) for the Age I fish. Precotialness was a problem with Age II rearing. Dworshak has recently modified its facilities to raise only Age I fish.

In an attempt to evaluate imprinting, a group of fish was trucked upriver from the hatchery to a release site on the Lochsa River. Since there was no terminal recovery site, evaluation of the success and survival of these fish is impossible. There were a total of six returns from this group, of which four were recovered during spawning operations at Dworshak. This indicates at

least a portion of the fish did not bypass the hatchery and return to the release site.

1978 - Data Codes 10/2/31, 10/13/15 - Contribution, satellite plant

In 1978, a study was initiated to evaluate another offsite release. A group of fish were tagged and released behind the adult weir at Kooskia National Fish Hatchery which is located upstream from Dworshak. Survival of these smolts to adults was good. The smolt-to-adult survival back to the hatchery was 0.32%. There were four recoveries made at Dworshak and 189 at Kooskia for a straying rate into Dworshak of 2.1%. The preliminary results of this experiment have been utilized and offsite releases are presently made upstream from the hatchery in an attempt to increase fishing opportunities.

The group of fish released in 1978 at Dworshak Hatchery was designed to evaluate contribution. I question if this group is representative of the hatchery since the fish were from one pond and one system.

Ideally, there should be tagged fish representing all three water reuse systems. In calculating contribution, I assumed it was representative and I used an adult return ratio for expansion purposes. Table 5 summarizes tag recoveries and contribution estimates.

1979 - Data Codes 10/5/33, 10/5/34, 5/4/25 - Migration, homing

In a 1979 study conducted by the Cooperative Fishery Unit, Age I sub-smolts were allowed to migrate voluntarily from the ponds. Two groups representing these fish were tagged for release. Those not migrating were held over for a two-year rearing program. One of the tag groups (10/5/33) was released at the hatchery to migrate naturally. The other group (10/5/34) was trucked to a barge and taken to below Bonneville Dam.

Neither group is represented by a large number of tag recoveries. A total of 23 recoveries have been made from the hatchery-released group, and 14 from the barged group. All of the recoveries from the barged group were recovered at 4 years old (2-ocean). The river migrant group was represented by recoveries from 6 four years old and 17 five years old (3-ocean) fish. Three of the recoveries from five years old fish were taken in the Indian gill net fishery. There is no evidence of homing problems in either group.

Another group of fish was released in 1979 to evaluate an Age II release. Survival of these fish was good as indicated by the 234 tag recoveries. The adult-to-smolt ratio at the hatchery was 0. 46%. A summary of the tag recoveries after expansion is contained in Table 4.

<u>Hagerman National_Fish Hatchery</u>

1979 - Data Codes 5/4/22, 5/4/23, 5/4/24

These three tag groups were used in a study designed to evaluate fish reared in a hatchery with a constant water temperature and then cold

42

Table 4. Summary of expanded tag recovery information from Columbia River and ocean fisheries for summer steelhead released from Dworshak National Fish Hatchery, Idaho, in 1977-79.

Data Code	C.R. Sport	C.R. Gill	Indian Gill	Indian Cere.	0cean ^C	Deschutes River	Ехр.	Illegal Har.	Total
10/13/7			5.2(2) ^a	2.0(2)	2.3(1)				9.5
10/13/9			21.6(6)	2.0(2)	1.5(1)				25.1
10/13/10			40.5(14)	1.0(1)	1.5(1)		1(1)		44.0
10/13/11			14.3(5)						14.3
10/13/12			2.9(1)						2.9
10/13/13			2.9(1)						2.9
10/13/15			87.0(31)			2.4(1)			89.4
10/2/31	7.2(3)		129.4(42)	1.0(1)	1.6(1)			5.0(5)	144.2
5/4/25	, ,		50.2(35)	1.0(1)					51.2
10/5/34			6.6(4)						6.6
10/5/33			5.2(3)						5.2

 $^{\rm a}_{\rm b}()\mbox{-Actual recoveries.}$ Expansion not possible because sampling information is not available. $^{\rm c}_{\rm Sample}$ information available for these tag recoveries.

	Hatcha	ch ^a Deschutes		Indian			Idaho	Illegal	
	Rack	Sport	Gill	Cere.b	Idaho ^C	0cean	sportd	har.	<u>Total</u> e
Number	2,392	59	1,061	8	1,344	13	4,088	5	8 , 970
Percent of total	26.7	0.7	11.8	0.09	15.0	.1	45.6	.05	100

aEnumerated at the spawning rack and based on length frequency data.

Tag recovery data not expanded because sampling information is unavailable.

Estimated harvest for 1979-80 season, fall season only for years 1981-82, all adjusted for appropriate age classes in expected years of return (Lukens 1983).

No sport harvest in 1980-81. Estimates for 1981-83 adjusted for appropriate age classes in expected eyears of return (Lukens 1983).

Total percent not exact due to rounding.

conditioned prior to their release into the river. This study was conducted by the Idaho Cooperative Fishery Unit. The marking was done by the Fish and Wildlife Service. These groups do not lend themselves to contribution estimates. I have summarized the expanded tag recovery data in Table 6.

Steelhead

Niagara Springs Fish Hatchery

1977 - Data Codes 10/2/34, 10/2/35, 10/2/36 - Feed trials

In 1977, a feed trial was initiated to test the hypothesis that fish fed Oregon Moist Pellet (OMP) prior to release would have a higher survival resulting in more adult returns. Fish were fed OMP for 14 days and 30 days prior to release. The regular dry diet was fed to a control group. The test group were additionally marked with fluorescent grit. Mortality in all three groups was high and averaged 8.7% prior to release. A high rate of handling probably added to the mortality.

The outmigration conditions in 1977 were the poorest on record. A drought in that year caused delays and high mortalities at the dams as the fish had to pass through the turbines. Insufficient tag returns mullifies the experiment. A total of 33 tags were returned from an experimental release of 149,700. This reflects only 0.022% survival of the three groups, collectively.

1978 - Data Codes 10/3/35, 10/3/46, 10/3/47, 10/3/49 - Homing and migration

In 1978, a study was initiated to determine imprinting and homing capabilities of steelhead. Four groups were released representing different treatments during the rearing cycle. Three groups originated from Dworshak B stock. One group (10/3/45) was reared at Dworshak and then taken to Niagara Springs as fry in October 1977. A second group (10/3/46) was taken as eggs directly to Niagara Springs Hatchery and reared. A third group (10/3/49) was reared at Dworshak to smolt size and released into the Pahsimeroi River. The fourth group (10/3/47) was Pahsimeroi A stock and represented the normal product of Niagara Springs Hatchery. All groups reared at Niagara Springs suffered high losses due to furunculosis. Mortality prior to release averaged 34.9% and went as high as 42.2% in the group taken as fry from Dworshak to Niagara Springs. The B stock fish performed poorly throughout the rearing cycle (Charles Quidor, pers. comm.).

During the expected years of return, only 11 tags were recovered from the fish raised at Niagara Springs, including the control group. A total of 115 recoveries were made from the Dworshak raised group. The study did demonstrate that there is no serious homing problems and that imprinting can occur at smolting time. All 11 tag recoveries from fish reared at Niagara Springs were recovered at the Pahsimeroi trapping facility. A total of 94

Table 6. Summary of actual and expanded tag recovery data from Columbia River and ocean fisheries for steelhead reared at Hagerman National Fish Hatchery and released into the Pahsimeroi River, Idaho, 1979.

Data	C.R.	C.R.	Indi	an			Deschutes b	
Code	Sport	Gill	Gill	Cere.	Ocean ^a	Exp	River sport ^b	Total
5/4/22			55.7(34)	4.8(2)	5.0(1)		3.4(2)	68.9(39)
5/4/23	11.8(1)		58.9(38)		10.0(2)	1.0(1)	5.8(3)	87.5(45)
5/4/24	11.8(1)		21.0(14)					32.8(15)
Total	23.6(2)		135.6(86)	4.8(2)	15.0(3)	1.0(1)	9.2(5)	189.2(99)

^abAssumes 20% sample rate. Includes recoveries at Pelton Dam sampled at 100%.

recoveries from the Dworshak raised group (10/3/49) also returned back to the Pahsimeroi trap or were caught in the Salmon River sport fishery. Only 4 recoveries from this group were recovered at Dworshak Hatchery. This represents a 4.1% straying rate and demonstrates the ability of fish to bypass the water system where reared and continue on to their release location. Table 7 summarizes all tag recoveries after expansion.

1979 - Data Codes 10/3/43, 10/3/44 - Time at release

In 1979, two releases were made to evaluate time of release. One group (10/3/43) was released in mid-March. The second group (10/3/44) was released in early April. Both groups had good returns in comparison to previous years with a total of 306 recoveries at the hatchery rack. The smolt-to-adult survival of tagged fish to the hatchery was 0.21% and 0.31% for the early and late release groups, respectively. This is a significant difference in the survival of the two groups.

Contribution estimates for the 1977 and 1978 studies were not possible because of low tag returns. For the 1979 release, I combined both groups for contribution purposes. By combining both release groups, it not only increased the sample size but represented the hatchery's releases across time. I also assumed no returning five year old (3-ocean) fish for these tag groups since they are "A" stock and normally do not return as 3-ocean fish. However, I did have one tag recovered from a five year old fish by age but in length was only as large as a four year old fish.

The smolt-to-adult survival of the hatchery release back to the spawning rack was 0. 37%. The smolt-to-adult survival of tagged fish back to the spawning rack was 0.26%. I determined the contribution rates by utilizing the adult return mark ratio. Contribution estimates were not determined for the fish released in 1980 because more returns are expected this next year. Table 8 summarizes the contribution of the 1979 release to the various fisheries.

Tag Recoveries

A computerized listing of tag recoveries (Appendix) summarizes all recoveries for those groups that are not finalized. The recoveries are by hatchery, listed in alphabetical order. Within each hatchery, the tag groups are listed numerically by data code. Totals appear for each run year, along with the total brood year recoveries.

DISCUSSIO

N Estimating Procedures

The contribution estimates presented are the most complete since the study began in 1976. In previous years, high smolt mortality resulted in so few

Table 7. Summary of actual (in parentheses) and expanded tag recovery information from the Columbia River for summer steelhead reared at Niagara Springs Hatchery and released in the Pahsimeroi River, Idaho, 1977-78.

Data	C.R.	 	Indi		Deschutes	
Code	Sport	Gill	Gill	Cere.	<u>River^a</u>	Total
10/2/34			8.6(3)			8.6(3)
10/2/35			2.9(1)			2.9(1)
10/2/36	14.0(1)		3.4(1)			17.4(2)
10/3/45						0.0(0)
10/3/46						0.0(0)
10/3/47						0.0(0)
10/3/49			57.0(19)		2.4(1)	

aR.Lindsay(pers. comm.).

Table 8. Hatchery returns and contribution estimates for summer steelhead reared at Niagara Springs Hatchery and released into the Pahsimeroi River, Idaho, 1979.

Recovery Site	Hatch. ^a Rack	C.R. Sport	C.R.b Gill	Indians Gill Cere. Idaho ^C	Deschutes sportd	Idaho ^e sport	Ехр.	Total
Total ontribution	5048	113	3	1557	413	8,075	2	15,211
% of total	33.2	0.7	0.01	10.2	2.7	53.1	0.01	100.0 ^f
Exploitation of available fish ^g		0.7	0.00	10.6	2.7	61.5	0.00	

Actual enumerated at spawning rack for years of recovery based on length frequency data. Recoveries made in Cowlitz terminal fishery and are incidental or illegal harvest.

dNo estimate available.

R. Lindsay (pers. comm.).

Salmon River sport harvest estimates adjusted to reflect harvest of appropriate age fclasses (Ball, pers. comm.).

Total percentage not exact due to rounding.

Based on total estimated contribution (15,211).

returns that contribution estimates were not practical or were based on extremely small samples. I have also been delayed in making contribution estimates by a lack of sampling rate information. This problem still exists, but by obtaining information from individual investigators, I have been able to complete those groups which have recoveries from areas where sampling rate information is available.

To calculate the estimates, two methods can be utilized for expansion purposes. At present, almost all agencies utilize a smolt mark-to-unmark ratio for calculating expansion. This method, referred to as the "standard" model is represented by:

Total fish recovered <u>Total fish released x total tags recovered</u> Total tags released In the above equation,

Total tags recovered = Expansion factor x total decoded tags.

The following assumptions are necessary for this model to be valid:

- 1. The tagged fish are representative of the defined group; i.e., they are representatively sampled and are treated the same as the untagged fish both before and after tagging.
- 2. Tag shedding is nonexistent or is estimated and adjusted.
- 3. No differential mortality exists between tagged and untagged numbers of the group from tagging to release, or if differential mortality exists, it can be estimated and adjusted. Also, no differential mortality occurs from release to recovery, or if it occurs, it can be estimated and adjusted.
- 4. No differential growth exists between tagged and untagged fish affecting catch distribution in time or area.
- 5. No differential susceptibility to the fishery exists between tagged and untagged fish.
- 6. No misidentification of tagged and untagged fish exists (e.g., tagged fish belong to the proper release group, have been adipose fin clipped, and not regenerated the adipose fin).

The other method which can be used, and the one that I prefer, utilizes an adult unmarked-to-mark ratio, referred to as the Alternative Model. This model is simply defined as:

Total fish recovered = Total fish returned x total tags recovered Total Tags returned

In the above equation,

Total tags recovered = Expansion factor x total decoded tags.

The following assumptions are necessary for this model to be valid:

- 1. Straying into the return site must be nonexistent or estimated and adjusted.
- 2. No differential straying away from return site exists between tagged and untagged fish of the defined group.
- 3. Tag shedding does not occur between harvest and return.
- 4. No differential mortality from harvest to return exists between tagged and untagged fish.
- 5. No differential susceptibility to fisheries exist between tagged and untagged fish.
- 6. To estimate the number of untagged fish, the defined group must be the only group present at the time of assessment, or the proportion of untagged fish from other groups must be estimated.

I prefer the alternative method to calculate Idaho's contribution because:

- 1. There appears to be a differential in survival of marked and unmarked fish.
- 2. The standard model is dependent on an accurate value for the total hatchery release. To date, few hatcheries have the capability of accurately counting their total releases. If the total number of fish released is greater than the recorded number, then the actual contribution is underestimated. If the total number of fish released is less than the recorded number, then the actual contribution is overestimated. The alternative model is not dependent on this value.
- 3. Use of the alternative method requires accurate records of length frequency distribution, total returning adults and an estimate of hatchery bypass. In Idaho, almost all hatcheries trap 100% of the fish run or the number bypassed is estimated or known. Accurate records are kept at all hatcheries of those items necessary for the alternative model to be accurate.
- 4. In the past, downriver sampling programs targeted marked fish for use in indexing and passage studies. In some years, the number of tagged fish sacrificed was large, changing the release mark-to-unmark ratio. The standard model is directly affected by these practices and must be adjusted. The alternative model already reflects this difference.

5. In Idaho, straying into return sites by adults other than those destined to a specific hatchery appears to be insignificant.

In the more detailed contribution estimates, I included exploitation rates of the available fish. These figures were derived by applying the total estimated contribution from a brood year and calculating the percentage of fish harvested in relation to the number actually available in the fishery as indicated by tag returns. This information, as well as the estimates, have wide variances.

Tag Recoveries

From 1981 to 1982, the number of tags recovered almost doubled. Most of these recoveries are from summer steelhead. Improved survival of steel-head smolts in recent years is the reason. Spring chinook salmon tag recoveries remain low. Summer chinook tag recoveries are increasing. In the past year, summer chinook tag recoveries made up the majority of the salmon tag recoveries received by the laboratory. Tags from fall chinook salmon continue to be recovered in the ocean fisheries. Almost all tag recoveries from ocean fisheries are from fall chinook.

Contribution Estimates

In recent years the survival of fall chinook smolts has greatly in-creased. As a result, the tagged fish are being caught in every fishery from Alaska and Canada to the mouth of the Columbia River.

Steelhead contribution estimates mainly represent the harvest of fish in the Columbia River Basin. Though there has been speculation that there is a high loss of steelhead in the Japanese squid fishery, this has not been verified.

ACKNOWLEDGEMENTS

I would like to thank Fred Partridge for his help in supervising various freeze branding operations. A special thanks goes to Daisy Nichols for designing the codedwire tagging logo on the report cover.

LITERATURE CITED

- Duke, R.C. 1980. Fish Tagging Mobile Unit Operation, Repair, and Service Manual. Idaho Department of Fish and Game. 58 pp.
- Lindland, R.L. 1983. Annual project closing report. Clearwater River Development of Spring Chinook and Steelhead Stocks, Columbia River Fisheries Development Program. Idaho Department of Fish and Game. 12 pp.
- Lukens, J.R. 1983. River and stream investigations. Study III. Job No. 1: Clearwater River Steelhead Investigations. Idaho Department of Fish and Game.
- Pacific Marine Fisheries Commission. 1981. 1978 Report of Pacific Salmonid Coded-Wire Tag Recoveries. Regional Mark Processing Center for Pacific Coast States.
- _____. 1982. 1979 Pacific Salmonid Coded-Wire Tag Recoveries. Regional Mark Processing Center for Pacific Coast States. In press.
 - Raymond, H.L. 1974. Marking Fishes and Invertebrates. 1. State of the Art of Fish Branding. Marine Fisheries Review. 36(7): 6 pp.
- Sokal, R.R. and F.J. Rohlf. 1969. Biometry. W.H. Freeman and Company, San Francisco. 776 pp.

APPENDIX

Sample rates for use in expanding tag recoveries in the lower Columbia sport fishery - sections 1-10 (King, pers. comm.).

Percent of Catch Sampled

	1	979	19	80	. 19	81	19	82
	СН	STHD	CH	STHD	СН	STHD	СН	STHD
February		2.8		2.8	2.4	4.1	7.4	1.9
March	5.0	4.5	12.4	6.4	12.6	6.3	12.3	10.2
April		3.2						
May								
June	11.0	15.7	5.1	7.8	6.6	5.1	13.6	21.7
July	9.7	13.1	13.8	14.5	4.3	3.7	6.5	20.5
August	12.4		19.8	4.7	8.3	5.4	5.2	
September	17.5		17.9		13.0	8.5	4.1	
October	3.8						14.3	
November		3.2						

Sample rates for use in expanding tag recoveries in the nontreaty commercial fisheries below Bonneville Dam - Zones 1-5 (Hirose, pers. comm.).

Percent of Catch Sampled

Chinook

ו	979	
	Winter Early Fall Late Fall Youngs Bay	26.0 29.0 25.0 12.0
1	980	
	Winter Early Fall Late Fall Youngs Bay Washington Terminal	46.0 30.0 47.0 60.0
. 1	981	
	Winter Late Fall Youngs Bay Washington Terminal	39.0 41.0 52.0
7	982	
	Winter Early Fall Late Fall Youngs Bay Washington Terminal	38.0 35.0 30.0 50.0
7	983	
	Winter	41.0

Sample rates for use in expanding tag recoveries in the treaty fishery above Bonneville Dam - Zone 6 (Hirose, pers. comm.).

Season		Percent of catch Chinook	sampled Steelhead
1979	Winter	40.0	13.0
	Fall	28.0	35.0
1980	Winter Fall	39.0	33.0
1981	Winter	55.0	36.0
	Fall	41.0	81.0
1982	Winter	50.0	49.0
	Fall	44.0	59.0
1983	Winter		54.0

ACULT RECOVE	RY EY HA	ATCHERY AND I	CAT# CODE							
DATA CODE	SPECIES	RECUVERY AGENCY	TYPE RECCVERY	LCCATION	RECUVERY CATÉ	LENGTH MM	SEX	MARK' COLE	TAG ID NUMBER	FILE
50425 - DWO	IRSEAK			*******						
5C425 5C425	STLFD	IDAHO IDAHO	FATCH RACK FATCH RACK	KOUSKIA NAT DWORSHAK HAT	4681 41481	825 584	Ķ	A C A C	1896 869	8128 £128
RUN TCTAL:	2									
\$	######################################	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	CCKKLLLLL RAAGILLLL RAAGILLLL RAAGILLLL RAAGILLL RAAGILL RAAGILLL RAAGILL RAAGILLL RAAGILL RAAGILL	TITIO 646666TTITITITITITITITITITITITITITITITIT	22222222222222222222222222222222222222	0006015681000000000000000000000000000000	## · •# •##Z###Z## •\$\$#\$\$\$ •###### •#\$#\$\$#\$ •####\$#\$###\$#\$###\$##	פריים המינים המ	4684938 5 37585659643178C1983942692 6 82478781 5 68247878 5 68247878 5 68247878 5 68247878 6 8 242788 6 8 242888 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	**************************************

ADULT RECOVE	RY EY HA Species	TCHERY AND D RECOVERY AGENCY		LOCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CODE	TAC ID NUMBER	FILE NO
58 58	22222222222222222222222222222222222222	COOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	TITITITITITITITITITITITITITITITITITITI	22222222222222222222222222222222222222	14484458437905412924084906490420844990C000C000C0U0C0C00C00C0C0OCCOCCOCCOCCOCCOCCOCCOCCOCC	┱╅╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	OCCUPATA LEGICA DE SE LA LEGICA DE SERVIDO DE CONTRA DE	7.67611.650.8C1.462.693.538.66.63.66.65.66	444444444466666666677777333733339999999999

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LGCATION	RECCVERY	LÊNGTH MM	SEX	COCE	TAG ID NUMBER	FILE
\$	######################################	HINDERHITZYYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZ	CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	TITITITITITITITITITITITITITITITITITITI	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00000000000000000000000000000000000000	>>>>+++++++++++++++++++++++++++++++++	- スペン・ア・ファン・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア・ア	9 1435847378793 1529793 15252664335847378560157032875496497414463699883884 15252466435847378560157032875496407414463699883884 1525246643584737878580777673157155665444411114432233565666613452351268365425666613452351268365113444437137466314543423512483454354345434144144444111443223232246626614154111111111111111111111111111	2222222233333333333344444444444444555555566666666

ú

2 2 3 5 5 7 8 4 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	MCC ACCUCACCACCACCACCACCACCACCACCACCACCACCAC	TAG ID NUMBER 2264 2318 2219 2282 2286 22815 21557 1444	E 1 L C E 2 7 8 E 2 7 8 E 2 7 8 E 2 7 9 E 2 7 9
**************************************	Λ <u>Γ</u> Α <u>Γ</u> Α <u>Γ</u>	226C 2281 2169 2557 1441	6278 6279 6279 6279 6279 6279
•	AC AC AC	12572 13475 1224 90775	8279 8279 8279 8279 8279 8279 £279
		•	
, F M M		3DSHC 42 8 3DSHC 42 8 820545310 820022150 820022150 3CSHC 180 3CSHC 1439 3DSHC 1239 3DSHC 1239 3DSHC 1265 3DSHC 1265 3DSHC 1265 3DSHC 1265	844360 844360 83660 8336669 833660 83360 8442 8444 844 844 844 844
₩ ₩ ₩		82UC879 9264 81U0013 81U6404 2040 156 G1615 2508 2857 1473	8285 8313 8214 8226 9273 8278 8278 8279 8279
F	Δ٢	3በ ና ৮በ52ሮ	8435
ት ት ተ ተ ተ ተ ተ ተ ተ	44000000000000000000000000000000000000	303F-0623 305F-0613 305F-0544 305F-05545 305F-0535 305F-0535 305F-0537 305F-0557 305F-0557 305F-0668	26 84 35 84 35 84 35 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 84 33 85 84 33 84 33 84 33 84 34 34 34 34 34 34 34 34 34 34 34 34 34
	*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** * **	ACC ACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	## AC

ADULT RECOVE	RY EY HA	TCHERY AND L	CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY BATE	LENGTH MM	\$ E X	MARK CCCE	TAG ID NUMBER	FILE
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NANNANNANNANNANNANNANNANNANNANNANNANNAN	KKKKKKKKKK AGGCGCCCCKKKKKKKK AGGCGCCCCKKKKKKKKK AGGCGCCCCKKKKKKKKKK	TITITITITITITITITITITITITITITITITITITI	######################################	00;000;0000049283018944234 *5252256128147551899603500786625550407188355222589989888888887886625550407188355225	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		999901456789 1212122222222222222222222222222222222	55588888838838836635557726777777777777778888888888811111111111

>

SATA CORE		DECOMENT AND I		100-740-	De de la comunicación de la comu						
CATA COCE	SPEC IES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECCVERY DATE	LENGTH MM	SEX	CODE	TAG ID NUMBER	FILE	
######################################	00000000000000000000000000000000000000	HBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	FATCH RACCK HATCH	NATITITITITITITITITITITITITITITITITITITI	33333333333333333333333333333333333333	00000JGCC00000C00C00C00CCCCCCCCCCCCCCCC	>#####################################		77744446789980C0C22T445566788994688 77744466789980C0C22T4455667889 0334546444219888K5C10C324444 033333333333333333333333333333333	111111111111111166666666666668333358888888888	
TCT#L T#GS:	217										
********** 50659 — DhOI *********	RSHAK			· **********							
50659	SP CK	CREGEN	EXPERIMENT	NEWPORT	60182	183	•	AC	82Y0536	8335	
RUN TCTAL:	1										
50659	SP CK	IDAHC	HATCH RACK	DWORSHAK NAT	93683	584	۲	AC	3CSPNT36	8540	

							PATCH			1622001 16220001 162200001 162200001 162200001 16220000000000
******									b	TCTAL TAGS:
									4	: JATOT AUR
0558 0553 0553	71001 70001 8643 76037	3 A 7 L 3 A 3 A	4 4 4	167 513 513	101783 100083 102883 102883	CLEARWATER 2 CLEARWATER 2 CLEARWATER 2 CLEARWATER 4	Y84 TMUJOV H214 TMUG2 Y84 TMUJOV Y84 TMUJOV	DHAGI DHAGI DHAGI DHAGI	04715 04715 04715 04715	92019 92019 92019 92019
****	****	*****	** * * * * * * *	**********	******	****************	*******	********** *******	:*****************	************ 1040 - 97015 ********
									Z	:2341 14131
									z	RLN TOTAL:
8758 8753	90001 50031	3 A 3 A	Ч Н	399 869	102783 110183	CLEARWATER 2 CLEARWATER 3	YSATNUJOV H214 TAO92	DHAGI Dhagi	31718 31718	97019. 97019
******	· * * * * * * * * * * * * * * * * * * *	******	*********	***********	************	*******************	******	*********** ********	************************	**********************
									ż	:2341 J4TOT
									ī	RUN TCTAL:
NO ELFE	71 24T 8384UA	CODE NARK	ZEX	LENGTH	KE CCVERY	ГСС∀11 0И	TYPE	V EENCA KECONEBA	SPEC 1ES	3303 41A3

ACULT RECOVERY -- 8Y HATCHERY AND BATA CODE

σ

(

(

(

(

(

ŢĹ.

(

(

1

)

j

ار

CATA CODE	SFEC IES	RECOVERY AGENCY	TYPE RECCVERY	LCCATION	RECCVERY	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE NO
11111111111111111111111111111111111111		COULTING COLOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	SPPORT IT TO THE REAL REAL COLOR REAL REAL REAL REAL REAL REAL REAL REA	RR RR RR NANANANAN NANANAN NANAN NAN	0CC11111111111111111111111111111111111	•64333382455247252973295152452224248787988887789888787888878888778888778888778888778888778888	╸╸		458252887514285744106157825844C 46 8047 31587244430C 81372242 193 0610020242C43355365021247884C 59 7916 2488865844430C 813722442 1000 07376000076760000778817 59 7916 2488865844430C 813722442 1000 0737600007760000778817 59 7916 2488865844430C 813722442 1000 0737600007760000778817 59 7916 24888865844430C 813722442 1000 0737600007760000778817 59 7916 24888858584430C 813722442 1000 0737600007760000778817881886588784430C 813722442 1000 0737600007788188888888888888888888888888888	\$3300000000111111111111111222222222222233334444445555555555

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE KECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE
	28888888888888888888888888888888888888		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	NAAAKKKKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	11111111111111111111111111111111111111	2C7C1246158782024553344078338348732777C012452496511214508854856345325745 98788752383606672112208311312321688880050676637255656703322377167162862 9878878888878787878788887778788887877778888	**************************************	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	739738307755068444872015422512252252852855753775646855526366347288843573191692383836544362884352512195928838365443628838369944452251254356567264685555526383583657373154356575753775668757588358835657757843573736575753775646855757868777456774564467586446575766877745677456	666666677777777777777888888888888899999999

DATA CODE	SPEC 1ES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NO
	######################################	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	TITITITITITITITITITITITITITITITITITITI	11111111111111111111111111111111111111	90121154849002311417J883760994825187325994155777788788878878865658785378587853780274339865658786818330278887888878888788887888878888788887	╅ ╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	AFFFAAAAAAAAAAAAAAFFAAAAAAFAAAAAAAAAAA	81842568472 911226020912 911226020912 911126020912 5388912108568491215112025666695666907708894 111111111111111818877789899918889119181911111111	3344444444677788888888888888888888888888

_

ģ

(

(

1

(

(

(

(

-{

ų	
⊃	

ACULT RECOVE	RY EY HA	TCHERY AND L	CATA CODE							
DATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH, MM	SEX	₽ARK COCE	TAG IC NUMBER	FILE NO
100231 100221 100221 100221 100221 100221 100231 100231 100231 100231 100221 100221	\$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0	NMFS NMFS NMFS NMFS NMFS NMFS NMFS NMFS	HATCH RACK	DWORSHAK NATEWORSHAK NATEWORSH	41168822 41168822 41168822 312236882 312236882 412268 412268 412268 412268 412268 412268 412268 412268	890 840 970 1020 840 990 940 940 990 940 1092	FFF222MF7MF	#4000000000000000000000000000000000000	640 64 68 2222 0 Y P 514 555 645 14 556 181 345 346 345 9	8271 8271 8271 8271 8271 8271 8271 8271
TOTAL TAGS:	385	•								
***********	**********		********							
100349 100349 100349 100349 100349 100349 100349 100349 100349	STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHO IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	SPORT FISH HATCH RACK	SALMON SEC 2 DWORSHAK NA 1 PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI	11129 429880 429880 4229880 4229880 4229880 4116880 5016880	635 686 660 660 660 660 660 660 660 660	ZZZZ#ZZZZZZZZ		12316 1540 158403037 1098400010 09840005 09840008 11913 09840024 09840046 09840036 09840131	8000 8601 8012 8002 8002 8003 8003 8003 8003 8003 800
RUN TCTAL:	12									
10C349 10C349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349 10C3349		CCC CANAMARTERS SS S	SPORT FISH SPORT FISH SPORT FISH INDIAN GILL INDIAN GI	SALMON SEC	1112008 1112008 1112008 1112008 1112008 1112008 1112008 1112009 1112009 1112009 1112009 1112009 112121 112121 112121 112121 112121 112121 112121 112121 112121 112121 11222 11222 12	831497 8855420205545122144420849309537 88886810423144420849309537	カッカー・カン・カン・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・		SHOC9 994 974 974 974 974 974 975 975 975 975 975 975 975 975 975 975	790444445555555566666633333478190 80000000000000000000000000000000000

· · · · · ·

)

)

CATA CODE	SPEC 1ES	RECUVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CGCE	TAG ID NUMBER	FILL NO
######################################	00000000000000000000000000000000000000	COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	RAACKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	INTERPRETATION OF THE PRODUCT OF THE	11111111111111111111111111111111111111	4414334734389438287347477930837378939444384828B88283989978519870 ••• 987888859888787878878898878788888888888	┎╓┎╬╬┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸ ┸┸┸┸┸┸┸┸┸┸	מהחטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	1248275C589803523C3E6876137378243724613556789C12785734555C234482115555676777756666888776181222232437246135567889971111111111111111122222222222222222	111112222336666677777788999990U00122333334444444444448899999999998822222336666677777788999990U0012233333344444444444444444444444444444
100349	STLFD	1DAHC	FATCH RACK	PAHSIMEROI	32682	762	F	ΑĽ	8600	8232

ADULT RECOVERY -- BY HATCHERY AND CATA CODE

2 8 2 2 2 8 2 2 8 2 2 8 2 2 2 2 2 2 2 2	25249 2521 2521 2522 2522 2522 2522 2520 81016 8100003 8200003 8200003		コーコー くって さっと ご・	6888 6888 6888 6888 6888 6888 6888 688	77777777777777777777777777777777777777	DWORSHAK NAT CRUCKSHAK NAT CWORSHAK NAT DWORSHAK NAT CWORSHAK NAT CWORSHAK NAT CWEGGON YON 6 CKEGGON YOU CKEGON YOU CKEGGON YOU CKEGGON YOU CKEGGON YOU CKEGGON YOU CKEGON YOU	HATCH RACK FATCH RACK	OREGON OR	0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715	0011 00011 000011 00000000000000000000	
							******************		ם כוי עוג	U7U - 7t±UUL	
									2 Z	:23AT J4TDT	
	•								۲۱	: און זכן ∧ע	
\$\\\^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	44444444444444444444444444444444444444	00000000000000000000000000000000000000	<u>ፈ</u> ጥጥ ተከከጠጥ ከከተደከከኮ	200007975767768898888888888888888888888888888	ESSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	OMORSHEK NET	INDIAN GILL HATCH RACK	DOSEMON DOSEMON DOSEMON DOSEMON DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSEE DOSE DOS	0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715 0+715	1002833 1002833 1002833 1002833 1002833 1002833 1002833 1002833 1002833 1002833 1002833 1002833	7.0
									9	:JAIDI NUR	
6523 7428 7428 7723 7723 7723	2136 0851 5232 2232 2831	3 A 3 A 3 A 3 A 5 A	* * * * * * * * * * * * * * * * * * * *	989 058 015 674 099	78815 78077 78677 784775 78677 78677	N CLEAPWATER CWCRSHAK NAT DWURSHAK NAT CWCRSHAK NAT CWCRSHAK NAT	VCLUNT PRY PATCH RACK PATCH RACK HATCH RACK PATCH RACK PATCH RACK	10AHC 10AHC 10AHC 10AHC 10AHC	04715 04715 04715 04715 04715	1006 33 1006 33 1006 33 1006 33 1006 33	
							*****************		74 47 S	1070 - 663001	
**********	* * * * * * * * * * * * * * * * * * * *		*****	******	*****	***********			511	:204T J4TDT	
									9	: JATOT NUA	
1978 6678 5578 5578 8678	5906 9158 9158 918 1898	3A 3A 3A	*	• 688 998 916	28725 28625 28625 28925 28917	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI	HATCH RACK HATCH RACK HATCH RACK FATCH RACK	2HA01 2HA01 2HA01 2HA01 2HA01	04715 04715 04715 04715 04715	676301 676301 676301 676301 676301	
NO FILE	01 0AT A384DA	COCE	2 E X	нталај ММ	RECCVERY DATE	LCCATION	RECOVERY	RECOVERY AGENCY	SPEC 1ES	EATA CODE	

ACULT RECOVE	ERY EY HA	ATCHERY AND I	CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK CODE	TAG ID Number	FILE NU
100534 100534	STL FD STL FD	IDAHO IDAHC	HATCH RACK FATCH RACK	DWCRSHAK NAT CWORSHAK NAT	51882 51882	838 686	F	A C	2804 2842	8277 8277
RUN TOTAL:	14									W. F. F.
TOTAL TAGS:	14									
**************************************	/R SEAK	*************		******					*****	
101307	STLHD	OREGEN	INDIAN GILL	CREGON ZON 6	91678	•	м	AD	SH0C75	7916
RUN TCTAL:	1									
101367 101367 101367	STLHD STLHD	IDAHC IDAHO IDAHC	FATCH RACK HATCH RACK	CWORSHAK NAT DWORSHAK NAT DWORSHAK NAT	42980 42280 50680	813 825 527	F	A C	1349 704	8001 8008
101307 101307	STLFD STLFD	IDAHE IDAHE	FATCH RACK FATCH RACK HATCH RACK	UWURSHAK NAT DWORSHAK NAT	5068C 42980	864 813	M M F	AC AC AC	2131 2170 547	8011 8011 8013
101367 101367 101367	STL+D STL+D STL+C	CANADA OREGON CREGON	GILL NET INDIAN CTS INDIAN CTS	JUAN DE FUCA WARM SPRINGS WARM SPRINGS	81779 40880 40880	868 811 810	•	A C C C C C C C C C C C C C C C C C C C	72306 80H2414 80H2415	8013 8041 8052 8052
RUN TOTAL:	8			WARRY STREET	1000	510	•	46	30112417	FC12
101307	STLFD	OREGON	INDIAN GILL	OREGON ZON 6	31281	889	M	AC	8100480	£155
RUN TCTAL:	1									
TCTAL TAGS:	10									
*********** 101369 — DhO *******	********** RSHAK *********	******	*******	******					*****	
101309 101309	STLHD STLHD	CREGEN OREGEN	INDIAN GILL INDIAN GILL	OREGON ZON 6 CREGEN ZON 6	40179 91878	690	M M	A C	79GCC61 SHGC76	7909
RUN ICTAL:	2		11021111 0122	CALCULATEDIA D	71010	•	r	AU	3110676	7916
1013C9 101309	STLHD STLHD	OREGEN OREGEN	INDIAN GILL Indian Gill	OREGON ZON 6 OREGON ZON 6	93879 90179	881 775	M F	A C	796 05 54 796 02 28	7997 7997
1013C9 1013C9 1013C9	STEFD STEFD STEFD	CREGEN OREGEN IDAHC	INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL HATCH RACK HATCH RACK	OREGON ZON & OREGON ZON & DWORSHAK NAT	91179 91679 42980	821 833 800	Ė M F	AΓ	7966228 796686 7962091	7927 7927 7907
101369	STLFD STLFD	Î DA H Ĉ I DA H O	TAILD KALK	CWORSHAK NAT CWORSHAK NAT OWORSHAK NAT	42980 5188 0	864 838	M	ACC ACC ACC ACC	1211 CDSF1C17 2385	8001 8014 8036 8038
101309 101309 101309 101309 101309	ŠTĖHO STLHD STLHD	ÎDAHC IDAHC IDAHO	FATCH RACK HATCH RACK HATCH RACK	DMORSHAK NAT	42280 42280 41580	902 902 864	× ×	AC	759 512 334	8008 8008 8009
101369	STEFO STEFO STEFO	IDAHC IDAHC IDAHC	HATCH RACK FATCH RACK FATCH RACK	DWCRSHAK NAT DWORSHAK NAT	4088J 41580 41580	851 813	F F	ÃČ AC	164 416	8009 9012
1013C9 1013C9 1013C9	STLED STLED	IDAHC Idahg	HATCH RACK HATCH RACK	DWDRSHAK NAT DWURSHAK NAT DWCRSHAK NAT NORTHERN	50680 42280	851 889 864	M	A C A C A C A C A C A C	256 2320 804 103427	8012 8014 9018
1013C9 1013C9 1013 C 9	STLFD STLFD STLFD	CÀNACA OREGEN CREGEN	GILL NET INDIAN CTS INDIAN CTS	NORTHERN WARM SPRINGS WARM SPRINGS	90279 40880 40880	856 865 830	•	AC AC AC	133427 8CH24C3 8UH2416	8341 8352 8052
						-		· -		

)

)

(

(

70				
	101310 101310 101310 101310 101310 101310 101310 RUN ICTAL:	TOTAL YAGS: ************************************	RUN TCTAL:	ACULT RECOVER
	STL+D STL+D STL+D STL+D STL+D STL+D		18	RY EY HA SPECIES
ONN GOUNN GOUNN GEGGGOONN GEGGGGOONN GEGGGGOONN GEGGGGOONN GEGGGGOONN GEGGGGOONN GOOREEGGGOO GOOREEGGG	IDAHC IDAHC IDAHC IDAHO IDAHG IDAHG IDAHG IDAHO	*****		TCHERY AND E RECOVERY AGENCY
INDIAN GILLL INDIAN RACCKK INDIAN RACCK INDIAN RACC	**************************************	********		DATA CODE Type Reccvery
CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGATTHAAK CREEGGGGATTHAAK CREEGGGGATTHAAK CREEGGGATTHAAK CREEGGATTHAAK CREEGGATTHA	CHOR SHAK NAT CWGRSHAK NAT CWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT	******		LOCATION
95999999990000000000000000000000000000	*********** 51579 41679 50179 32179 56879 51579	****		RECEVERY CATE
951682066187544885137388149303129566804784786888 889888888888888878888878668346836337888878888	********** 711 663 640 668 686 660	****		LENGTH MM
ӡӤӠҥӼҥӡӡӿҥӡҥҥӡҝҡӡӽӽҧҥҥҥҥҥҥҥҥҡҡҡҥҧҡҧӽҡҡӡҁӡҡ ҅	******** P F M M F M	** * * * * * *		SEX
FFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	**************************************	***		MARK COCE
13452108042 28222108042 256686725442 277990666025442 77999060606642 2566867254441111111111111111111111111111111111	839 273 722 11612 804 865	· **********		TAG ID NUMBER
777777788800000011111111224444445555555555666777777777788888888888	***** ***** 7811 7911 7911 7911 7911 7911	**********		FILE NO
	* 4	* *		

ACULT RECOV	ERY BY HA	ATCHERY AND	EATA CODE							
CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECCVERY	LCCATION	RECCVERY DATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE
10110000000000000000000000000000000000		GCCGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	THE	00000000000000000000000000000000000000	75891347831438839680837838338418268143932277811877428144493144331018 *3838778859878888888888888888888888888888	╅╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	SUBURURURURURURURURURURURURURURURURURURU	P12462935581121902430454351887271336070541 294663069555823183221212741545352241 577685977872144212212121212121216644117273664417273662355351862355351415457054 677685977872144212212121212121222322426231131971297803583522222116006611	777789888889999900000011111111111222222223333333334444444444

)

)

)

)

)

)

(

(

(

(

(

ADULT RECEVE	ERY EY HA	TCHERY AND D	ATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECGVERY DATE	LENGTH MM	SEX	MARK COCE	TAC ID NUMBER	FILE NO
101310 121310 121310 101310 101310 101310 101310 101310 101310 101310 101310	STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D	IDAHO IDAHO IDAHO IDAHC IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO OREGGN	FATCH RACK FATCH RACK HATCH RACK INDIAN CTS	DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT DWGRSHAK NAT NGRSHAK NAT NGRSHAK NAT NGRSHAK NAT	4298800 42298800 42298800 42298800 42298800 42298800 44068809 44068809 4008809	813 9187 838 8364 8364 8364 879 9046	++++++++++++++++++++++++++++++++++++++		1132 1372 13757 13757 137557 151 1838 164359 164361 17777 80H2404	8017 8017 8017 8017 8017 8018 8018 8018
101310 101210 101310 101310 101310 101310 101310 101310 101310 101310 101310 101310	\$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0	NMES NMES NMES NMES IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	EXPERIMENT INDIAN GILL INDIAN GILL INDIAN GILL VCLUNTARY HATCH RACK	BCNNEVILLE D CREGON ZON 6 OREGON ZON 6 OREGON ZON 6 N CLESHAK NAT DWORSHAK NAT	111880 90580 91080 122780 33181 33181 40781 42181	900 857589 857589 85189 85189 85189 85189 86189 86189	**************************************		SH0C17 82H3613 8CH3446 80H4720 1C31 1DSH0204 1DSH0298 1DSH0298 1CSH0560 814 1148 1286	8341 8342 8342 8342 8042 8051 8108 8108 81108 8114 8118 8124
7 RUN TCTAL:	STL+0 1 151	DHADI	HATCH RACK	DWCRSHAK NAT	50482	1016	м	AC	2217	£277 ,
	******	*****	*****	* * * * * * * * * * * * * * * * *	*****	******	** ** **	****	****	*** ** ** **
*******	******	*****		*****			*****			
101211 121311 121311 101311 RUN TCTAL:	STLHD STLHD STLHD STLHD	IDAHC IDAHO IDAHO IDAHG	HATCH RACK FATCH RACK HATCH RACK HATCH RACK	DWORSHAK NAT CWORSHAK NAT DWORSHAK NAT DWORSHAK NAT	42479 41779 41075 51579	686 643 698 660	M P M	A C A C A D	476 455 256 840	7911 7911 7911 7911
101211 101211 101211 101211 101211 101211 101211 101211 101211 101211 101211 101211 101211	\$11.40 \$1	CREGON UREGON OREGON OREGON IDAHO	INCIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN RACK HATCH RACK	OREGON ZON 6 OWEGON ZON 6 OWORSHAK NAT	77979990000000000000000000000000000000	8275 8425 8434 88638 88638 88138 88138 88138 88138 88138 88138	ホース・ロー・ファック・ファット		79GC2 42 79GC257 79G1619 79G3389 79G200 1535 973 1085 14549 1589 1539 0DSH0021 1461 16DSH1573	7908 7908 7908 7908 7908 80000 80000 80000 8000 8

76

)

)

ACHL T	RECOVERY	 £Υ	HATCHERY	ΔΝΓ	DATA	COME

4	ACOLI KECOVER	21 E1 DY	WICHERY AND I	CATA CUUE							
	CATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	FOCVIION	RECOVERY. CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE
	101311 101311	D0000000000000000000000000000000000000	I DAHC I DAAHC I DAAHC	FATCH RACK HATCH RACK	DWORKSHAK NAT DWOKKSHAK NAT DW	00000000000000000000000000000000000000	77858951842 • 33304584334838 8825360 113304584334838 888887886116319 • 768	+++>>+++2>+++++++++++++++++++++++++++++		5955144987311 5955144987311 5955144987311 5955144987311 5955144987317 6568771 6568771 668771 668771 668771 668771	677 CCC77 CCC77 CCC77 8000 8000 8000 8000
77	131311 101311 101211 RUN TCTAL:	STL+D STL+D STL+D	DAHO DAAG DAAG	FATCH RACK FATCH RACK FATCH RACK	CHORSHAK NAT OWORSHAK NAT CWORSHAK NAT	33181 40781 42881	864 724 876	M F	A C A C	10SF04C1 10SF0737 1534	8106 8112 8135
	TOTAL TAGS:	52									
	******************************	* 4 * * * * * * * * S	*****	**********	*****	****	****	******	***	*****	****
	101312 101312 101312 101312 RUN ICTAL:	STEFD STLFC STLFD STLFD	OREGON IDAHO IDAHO IDAHO	INDIAN GILL FATCH RACK HATCH KACK FATCH RACK	OREGON ZUN 6 CWORSHAK NAT DWORSHAK NAT DWORSHAK NAT	91179 42280 42280 41580	810 825 864 864	F M F	AC AC AC AC	7960694 598 901 287	7908 8607 8008 8012
	101312 101312 RUN ICTAL:	STL+D STE+D 2	IDAHG NMFS	VOLUNTARY HATCH RACK	CLEARWATER 3 DWORSHAK NAT	22881 32481	864 876	M M	A C	8112 6947	8130 8131

TETAL TAGS: 6

٠	,	Ī		
J				

ADULT RECOVER	RY BY HA	TCHERY AND D	CATA CODE							
EATA CODE	SPEC 1ES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MA RK COCE	TAG İC NUMBER	FILE NO
101313 - DWC	RSFAK		********						******	
101313 101313 101313	STLFD STLFD STLFD	IDAHC IDAHC IDAHO	HATCH RACK HATCH RACK HATCH RACK	DWORSHAK NAT CWGRSHAK NAT DWORSHAK NAT	42479 50179 51579	686 681 635	M M M	AC AC JT	558 711 11390	7911 7911 7911
RUN TCTAL:	3									
101213 10	00000000000000000000000000000000000000	OREGON IDAHG	ILL GICK RACCK RACCK RACCK RACCK RACCK RACCK RATCH RACCK RATCH RACCK RATCH RACCK RATCH RACCK RATCH RACCK RACCK RATCH RATCH RACCK RACCCK R	ON AATT ON AAT	90000000000000000000000000000000000000	03446C7888373783728985788854994 •77518878888778889 77888			714545 40 3 5 172610 40 3 5 172610 40 3 5 172610 40 125610 1256110 12	1801224444446666777790011111228456666777790011111111111111111111111111111
131313 101313 RUN TCTAL:	STLFD STLFD 2	IDAHO IDAHO	FATCH RACK FATCH RACK	DWORSHAK NAT DWORSHAK NAT	31781 40881	825 •	F •	A E A C	10SH3073 13	8132 8147
TETAL TAGS:	38									
**************************************	IR C + AK		******							
101215 101315 101315 101315 101315	STLFD STLFD STLFD STLFD STLFC	CREGON IDAHO IDAHO IDAHO IDAHO IGAHO	**************************************	OREGEN ZON 6 KLESKTA NAT KOOSKIA NAT KOOSKIA NAT KOESKIA NAT	91179 42280 50780 50780 42280	637 648 711 660 635	F M M M M F	AD AC AC JI JI	C79GC 668 GKSHCC62 JKSHCC01 12495 12857	7908 3000 8012 8012 8012 8014

)

)

)

)

)

	ACULT RECOVER	RY BY HA	TCHERY AND	CATA CODE							
	CAT& CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY CATÉ	LENGTH MA	SEX	MARK	TAG 10 NUMBER	FILE NU
	101315 101315 101315 101315 101315 101315 101315 101315 101315 101315 101315 101315	\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IDAHO	FATCH RACK	KOCSKIA NAT CWORSHAK NAT DWCRSHAK NAT KOOSKIA NAT KOOSKIA NAT KOOSKIA NAT KOOSKIA NAT KOOSKIA NAT KOOSKIA NAT KOOSKIA NAT KCOSKIA NAT KCOSKIA NAT KOOSKIA NAT KOOSKIA NAT	00000000000000000000000000000000000000	663868 663868 67116 664663 66798 668798 668798	3-2-2-6-4-3-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		CKSHOC61 2516 2333 115 K1 K3 K4 661 65 12421 12829 OKSHOC41 OKSHOC42 OKSHOC42	8005 8005 8007 80017 8017 8017 8017 8017 8019 8019 8019
70	10000000000000000000000000000000000000	22222222222222222222222222222222222222		SPORT FISH VOLUNTARY SPORT FISH SPORT FISH SPORT FISH SPORT FISH SPORT FISH INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILLL INDIAN GILL INDIAN GILLL	3 23266666666666666 A62222 222333313 RKR RKP RKP RKP RKP RKP RKP RKP RKP RKP	00000000000000000000000000000000000000	76 988879799888888888888888888887979881117249333336614J9968J3484068888888888888888888888888888888888	⋝\$ •₩₹₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	95555555555555555555555555555555555555	91111333333333333333444500113000004445900000000000000000000000000000

ì

CATA CUCE	SPEC IES	RECUVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY. CATE	LENGTH -	SEX	MARK CUCE	TAG IC NUMBER	FILE NO
55555555555555555555555555555555555555	22222222222222222222222222222222222222		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	NATTIA A NAATTIA	11111111111111111111111111111111111111	484841564444533853558783483557508385645304828384214510537653788328483440888889888888888888888888888888888	┰╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌	ANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	243567890123456789C1126789131456782501434567845678979C1234564479314235623456 909999990CCCCCCCCCCCCCCCCCCCCCCCCCCCCC	45555555555555566666222333333333334444444444

	ADULT RECOVER	V PV HΔ	TCHERY ANE C	ATA CUDE								
	CATA- CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LGCATION	RECCVERY CATE	LENGTH MM	SEX	CODE	TAG ID NUMBER	FILE NC	
	55555555555555555555555555555555555555	22222222222222222222222222222222222222	IDAHO	FATCH RACK INDIAN GILL FATCH RACK INDIAN GILL	DHORSHAK NA I OREGON ZON 6 KOCSKIA NAT KOCSKIA NAT KOCSKIA NAT KOOSKIA OKO OKO OKO OKO OKO OKO OKO OKO OKO OK	10111111111111111111111111111111111111	*C5431853C5404J10180 · · · • C2615321C2606C52171	• • • • • • • • • • • • • • • • • • • •		139 29 71 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7;333333333333355555555 1;555555555555555	
3	RUN TCTAL: 101315 101315 101315 101315 101315 RUN TCTAL:	\$22 \$1LHD \$1LHD \$1LHD \$1LHD \$1LHD \$1LHD	DREGON DREGCN CREGEN IDAHO OREGEN	INDIAN GILL INDIAN GILL INDIAN GILL FATCH RACK INDIAN GILL	OREGON ZON 6 OREGON ZON 6 OREGON ZON 6 KOCSKIA NAT GREGON ZON 6	30982 31182 31982 40082 91681	855 980 941 864 969	Ř F M	A C A C A C A C	82UC448 82UG845 82UG442 9C76 81UG641	8281 8281 9281 9287 8296	
	1CTAL [AGS:	246	*****	*********** *	****	****	*****	** * * * * * *	* * * * * * * * * * * * * * * * * * * *	** * * * * * * * * * * * *	****	ţ
	102119 - ChOI ************************************	RSFAK	**************************************	********* GILL	*************** OREGUN ZON 6	*********** 31181	************ 767	****	********* AC	********* 82UC483	********** 9281	(e
	102119 102119 102119 102119 102119 102119 102119 102119 102119 102119	STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D	OREGOON ORREGOON ORREGOON ORREGOON ORREGOON ORREGOON ORREGOON ORREGON ORREAS	INDIAN GILL GILL NET HATCH RACK	OREGON ZON 6 HIGH SEAS OWORSHAK NA I	20782 20782 20782 31582 31582 31582 31582 31582 31582 31582 31582 31581 300581 702281 20218	612 612 622 622 622 6125 7225 648 6604 710	133 יירדס		82UC787 82UC837 82UG2941 82UG2C44 82UC866 82UC866 82UG877 91U11C0 91U6075 81U6075	8281 8281 8281 8281 8281 82281 82281 82281 82281 82277	
	RUN TCTAL: 102119 102119 102119	STL+D STL+D STL+D	USFWS USFWS USFWS	FATCH RACK FATCH RACK FATCH RACK	DWORSHAK NAT OWORSHAK NAT CWORSHAK NAT	31483 32983 40583	840 890 810	F F F	AC AC AC	3DSH0136 3DSH0346 3DSH0421	6433 8433 8433	

1

(

,

ADULT RECOV	ERY EY HA	ATCHERY AND D	CATA CODE						,	
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECUVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NC
19999999999999999999999999999999999999	22222222222222222222222222222222222222	SZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	THITTITITITITITITITITITITITITITITITITIT	33333333333333333333333333333333333333	90UCCCCC085067895983233404926165310049085947248747843414249200C508444487989878888588888888888888888888888	┎┎┰┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎┎	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	22223345677888 37849234288847914248C76287387323349646 2866 2875513773560 558211013364 55821101364 558211	33333333333333333349 \$3373333333333333334 \$444444444443335555555555

ADULT RECEVE	ERY EY HA	TCHERY AND D	CATA CODE							
CATA CODE	SPEC IES	RECUVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY DATE	LENGTH PM	SEX	COCE	TAG IC NUMBER	FILE NO
19999999999999999999999999999999999999		DDDDDCCCDCDCDCCCCCCCCCCCCCCCCCCCCCCCCC	RACCKKKKKKACCKKKKKLLLLLLLLLLLLLLLLLLLLLL	TITITITITITITITITITITITITITITITITITITI	33333333333333333333333333333333333333	\$870780809000000000000000000000000000000	┍┎┱┱┰╈╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	112803C 37722953124256167 99878776 9987876545321226133 9987776 998787765 9987876545321226167 99878776 998787876545321226167 99878776 998787876545321226167 99878776 99878787854545321226133 998787876 99878787854545321226133 99878787878 9987878555555555555555555555	81113337111111111111111111111900060606666666667777777777

		ATCHERY AND D		•						
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY BATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NO
19999999999999999999999999999999999999	22222222222222222222222222222222222222	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	INDIAAN GGGILLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	00000000000000000000000000000000000000	**************************************	055JJ1112264558288658G5C6O442G48G2982171658765O56544744G589218G521G4845998581888888888888888888888888888888	╫╫╫╫╬╬┸╫┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	278023667245678835851568C67863034569012360356161748340245678701342368C124567802555555555555555555555555555555555555	99999999999999000000000000011111111111

)

									•	
ADULT RECEVE	RY BY HA SPECIES	RECOVERY AGENCY	ATA CODE TYPE RECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	NA PK COCE	TAG 10 NUMBER	FILE NO
11999999999999999999999999999999999999	00000000000000000000000000000000000000	NEXEXEXEXEXEXEXEXEXEXEXEXEXEXEXEXEXEXEX	INDIAN GILL	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	**************************************	7879774226395C368784C62702C6869060C65508787979888878888887897988599985879882200	#525624442664456245624564646452222424646		78912235678C134578C1345678C1222222222222222222222222222222222222	33444444444444444444444444444444444444
TOTAL TAGS:	272	+ **** ****	*******	******	********	*****	** * * * * * *	* * * * * * * * * *	*****	*** ***
102161 - Chi ++++++++++ 102161 102161 102161 102161 102161 102161 RUN ICTAL:	OR SHAK ####################################	**************************************	************* INDIAN GILL EXPERIMENT VCLUNTARY FATCH RACK FATCH RACK HATCH RACK	*************** CREGEN ZON 6 HIGH SEAS SALMON R DR DWCRSHAK NAI CWÜRSHAK NAI DWORSHAK NAT	*********** 30482 61782 115081 40682 41382 50482	671 778 660 686 686 686	******* M F M M M	A C A C A C A C A C A C A C A C A C	82UC8C5 82G007 852C 763 1251 2536	######################################
10 21 61 10 21 61 10 21 61 10 21 61 10 21 61 10 21 61 10 21 61	STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK	DWURSHAK NAT DWORSHAK NAT CWORSHAK NAT DWORSHAK NAT CWORSHAK NAT CWORSHAK NAT CWERSHAK NAT DWORSHAK NAT	41283 41283 41283 41283 41283 41283 41983 41983	7640 8640 8640 8640 8946 888 888	+ M + + + + + + + + + + + + + + + + + +	A C C C A C C C A C C C A C C C A C C C A C C C A C C C A C C C A C C C C A C C C C A C	30 S H 9 4 7 3 30 S H 9 4 8 6 30 S H 9 4 5 6 30 S H 9 4 6 7 7 30 S H 9 4 6 7 6 30 S H 9 5 4 7 6 30 S H 9 5 4 2	84 34 84 34 84 34 84 34 84 36 84 36 84 36 84 36 84 36

	ADULT RECEVE	ERY EY HA									
	CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY DATE	LENGTH #M	SEX	MARK COCE	TAG ID NUMBER	FILE NO
87	11111111111111111111111111111111111111		SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	RACCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	TTTTTTTTT 1 2 22 13 R 2 3 2 13 6 6 6 6 6 6 6 6 6 6 6 6 6 6 8 3 1 T T T T T T T T T T T T T T T T T T	337333713222222222222222222222222222222	COUCOCCOTT842 •34844685 • •1498861599COLLIQ8OTT1 •737615377883998331888878855911148886788886 8878678788888888888888888888	<u>አ</u> ፉተጽቱተ ኦ ጀን	**************************************	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	66799999669025554444449344U22222222222222222222222222222

)

)

87

(

Ċ

ADULT RECEVE	RY EY HA	TCHERY AND C RECOVERY AGENCY		LCCATION	RECOVERY DATE	LENGTH MM	SEX	MARK COCE	TAG 10 NUMBER	FILE
	28222222222222222222222222222222222222	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	33733737777777777777777777777777777777	575095164738497345845282898504395308600182177 *486000000000000000000000000000000000000	╌┸┸┸┪┪┪╬┪┪╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	AXAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	######################################	555577777777777788888888888888889000111133333991222222234888888888888888888888888888888

STLFD

STL+D STL+D

102161

102162

102162

102162

102162

102162

102162

RUN TGTAL:

ŠŤĽĖĎ

STEFE

STEHD

STEFD

STLID

SILHD

STLHD

STEHD

11

ÖREĞON

CREGEN

OREGEN

IDAHO

IDAHC

LDAHO

IDAHC

NMES

SPORT FISH

SPURT FISH FATCH RACK

FATCH RACK

FATCH RACK HATCH RACK HATCH RACK

AGENCY

USEKS

USFWS

ŬŠFWŠ

CESCHUTES R MACKS CANYON DESCHUTES R

CWCRSHAK NAT

DWORSHAK NAT

DWORSHAK NAT

OWORSHAK NAT

LCCATION

DWORSHAK NAT

RECOVERY

CATE

31483

31483

\$1681 82481

18308

92781

51182 51182

51182

51182

51882

600

562 710

660

851

762

660

LENGTH

ล์รีว์

SEX

MARK

TAG ID

FILE

8410

8410

8413 8412

8412

8412

94 i 2

8412

Ĕ4ÎZ

84 i 2

Ĕ412

8412

8421

8421

8421

8421

8421

8421 8421 8421

84 39 d4 39

84 10

84 39

8439

8439

8439

P455

2450

8450

8466

2466

8466

8466

8456

8466

P466

8498

8256

8223 8223 8223

8223

8265

8265

8277

81YC455 81YC437

81Y0448

81YC483

2615

2652

2599

2801

Ğ8321

ΑÇ

ΛC

ΑŪ

TYPE RECOVERY

HATCH RACK

ADULT RECOVE	RY EY HA Species	TCHERY AND E RECOVERY AGENCY	LCCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBEK	FILE NO
22222222222222222222222222222222222222	28288888888888888888888888888888888888			•	00000000000000000000000000000000000000	.E.W		C225679173466#CC1227445678 6769969342523232012374456678 676996934252323201237202012373233333333333333333333	4444444666666677777777777777794666666666

DWORSHAK NAT

LOCATION

CHORSHAK NAT

RECOVERY

CATE.

31483

31583

660

LENGTH

810

SFX

MARK

ΔC

3DS F0 238

8364

TAG ID

NUMBER

30SE3122

FILE

E410

1

TCTAL TAGS:

RUN TCTAL:

102252

DATA CODE

2

STLFD

DHADI

HATCH RACK

ADULT RECOVERY -- EY HATCHERY AND DATA CODE

SPECIES

RECOVERY

ĂĞĔŃĊŶ

TYPE RECOVERY

ADULT RECOVER	RY BY FA SPECIES	TCHERY AND D RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY DATE	LENGTH MM	SEX	MA RK CODE	TAG IC NUMBER	FILE NO
102253 - DWOF	RSFAK		**********	*********	*******	*******		***	** * * * * * * * * * * * *	* * * * * * * * * * * *
102253 102253 RUN TCTAL:	STLFD STLFD 2	USFWS IDAHO	FATCH RACK FATCH RACK	DWORSHAK NAT DWORSH2K NAT	41283 32283	640 635	h h	A E A C	30SF0488 30SF0335	8434 8370

50420 - HAG 1************************************	ERPAN ************************************	CALIF CANACA OREGUN CANADA CANADA CANADA CANADA CANACA AASH	SPORT FISH CILL NET GILL NET CILL NET SPORT FISH	BODEGA BAY JUAN DE FUCA OREGON ZON 2 SW VANCCUVER CENTRAL CENTRAL WASH AREA 6	**************************************	********** 540 454 470 402 353 411 383 530	******* M • •	*** ** **** A C A C A C A C A C A C A C A C A C A C	**************************************	**************************************
00000000000000000000000000000000000000	######################################	A NON NON NON NON NON NON NON N	TROLL FISH SPAWN TROLL FISH TROLL FISH SPORT FISH TROLL	SOUVE AREA 43 WASSH AREA 32 PORT NATT NATT NATT NATT NATT NATT NATT NAT	11811111111111111111111111111111111111	90000000000000000000000000000000000000			12564 1274 1274 1274 1274 1278 1288 1278 1286 1391	896666699999666601113111111166777777788888888888888888888

92

	DATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID Number	FILE NO
	GOOGOOGOOCOGOOGOOGOOGOOGOOGOOGOOGOOGOOGO	######################################	N GFLDDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	FATCH RACK SPORT FISH SPORT FISH FATCH RACK EXPERIMENT SPORT FISH IROLL FISH	TUCANNON HAT WASH AREA I TUCANNON AREA I TUCANNON ZON 3 CRESCENT CYNORTHERN SOUTH WEST CENTRAL CENTRAL CENTRAL NORTH WEST SOUTH WEST SOUTH WEST SOUTH WEST NORTH WEST NORTH WEST NORTH WEST NORTH WEST SOUTH WEST SOUTH WEST NORTH WEST	1121 1121 1231 1231 1231 1231 1231 1231	76790396582 •86495566 67659208765566 676557665	M		T20 67934 67840 1914035 18128135 182765 1795220 160764122 160764122 1793517 1799517 1799517 17764883 1914179518 179517 17	8217 8217 8217 8217 82217 82222 8222 8222 82222 82222 82222 82222 82222 82222 82222 82222
23	00000000000000000000000000000000000000	######################################		SPORT FISH ISH IROLL FISH IROLL F	2211 22 AAREA AA TTATTT NAATTTATTTATTTATTTATTTATTTAT	22222222222222222222222222222222222222	976671000115680117625071004222452 · · · · 5 · 32 · · · · · · · · · · · · · · · · ·	•••••••••		2 076535307158C7644CPPPPP21 3 335 2 174535307158C7644CPPPPP21 3 335 2582C562477613881C085544CPPPPP21 C 00 22582C5624776138881C085544CPPPPP21 C 00 24201M7595C54247613888881CO85551836543LTLL12345 24201M7595C510000000000000000000000000000000000	888897722222222222223811111111555555577777888889990707222222222223811111111155555557777778888899907072222222222222222222222

ADULT RECOVER	RY FY HA	TCHERY AND D	ATA CODE							
CATA CODE	SPEC 1ES	RECOVERY AGENCY	TYPE RECCVERY		RECUVERY EATE	LENGTH MM	SEX	MARK COLE	TAG ID NUMBER	FILE NC
10000000000000000000000000000000000000	######################################	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	CKKKKKKKK A HHHHHHHHHHHHHHHHHHHHHHHHHHHH	TUCANNON HAAT TU	22222222222222222222222222222222222222	••••••••••••••••••••••••••••••••••••••	> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	17 667 6681 6681 6681 6681 6681 6681 668	88888888888888888888888888888888888888
50420	FL CK	WASH	TROLL FISH	WASH AREA 4	51483	790	•	AC	81337	8500

RUN TOTAL:

}

1

)

)

`)

.)

{

1

1

(

(

(

(

(

(

ADULT RECOVE	RY EY HA	TCHERY AND D	AT & CODE							
CATA CODE	SPEC 1ES	RECOVERY AGENCY	T YPE RECCVERY	LCCATION	RECOVERY DATE	LENGTH MM	SEX	MA FK CCCE	TAG IC NUMBER	FILE NO
22222222222222222222222222222222222222	\$	SSSS DUCCUDED COLOCODO DE SENTANTA EN SONO DE COLOCODO	ILLELL GGILKH GGILKH GGILKH GGILKH GGILKH GGILKH RAARISY H HHHHHHLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	OONN NC III CCCCCCCCCNNNNNNNNNNNNNNNNNNN	22222222211111111111111111111111111111	03150 •444 •897477841244832CC8880586224324G5C53944494494839944484999484G78346888 888 88757788778878887878878888888888	╅╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	AAAJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	316982C41C8C6354C21778 9888 15654 7 108562323231515322165274947 10856232323315153221652745625555696666777775713 20000 11111 8 0099UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	######################################

	ERY EY HA		CATA CUDE							
CATA COCE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LUCA TION	RECOVERY BATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NC
22222222222222222222222222222222222	28288888888888888888888888888888888888		HATTOCH H RRAACCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	PAAAHHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHA	22222222222222222222222222222222222222	3443844109791737438433333494877888888888878787878888878788889798887788888778888877888888	╅╸╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬	CICTDCCCAAAAJAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	344444444555555577777777779991111222225233337777777777777777999111122222555555555555

SALMON SEC 2 SALMON SEC 2 PAHSIMERDI PAHSIMERDI

VULUNTARY

VCLUNTARY FATCH RACK FATCH RACK

110782 103182 41983 41983

£64 940 889

RUN TOTAL:

50422 50422 50422 50422

217

STEHD

STLFD

IDAHC

IDAHC

IDAHC

IDAHC

(

(

(

(

(

(

(

(

)

8346 8349 8418

AC AC AC AC

9706 9602

3PSH0636

3P\$HÓ643

81L4008

DAHO TDAHE

IDAHO

IDAHC

LDAHO

IDAHO ĎHÂĞĪ

IDAHC

LOAHC

I DAHO

IŬĀHČ

IDAHC

DAHO

IDAHC IDAHĞ I CAHÇ

ĬŨÄĤČ

IDAHŌ

IDAHC

LDAHO

IDAHC

LDAHC

IDAHG

ÎDAHĈ

IDAHO

IDAHO

IDAHC

IDAHO IDAHC

IDAHO

IDAHO

IDAHC

THAHE

IDAHC

IDAHC

IDAHO

IDAHC

IDAHC

IDAHO

IDAHC

IDAHU

IDAHC

I DAHO

IDAHE

IDAHC IDAHC

IDAHC

LDAHO

LDAHC IŬÂHĈ

IDAHO

DHAGI

IDAHÕ

IDAHC

IDAHC

IDAHO

IDAHC

IDAHC

IDAHC

IDAHC

IDAHC

IDAHC

IDAHC

IDAHĞ

IDAHC

IDAHC

ŠŤĹÍÐ

STLFD

STEFD

ŠŤĽŀĈ

ŠŤĒĖĎ

STLFD STLFD STLFD

STLFD

STEHO

STLFD

STEFD

STLFD

STLAD

ŠŤĒĦĒ

STLFD

STLIFD

STLFD

ŠŤĚHĎ

STLFD

STLFD

STLFD

STL FO

STEFD

ŠŤĽHĎ

ŠŤĽFĎ

STLFO

STLID

ŠŤŨĦŨ

STLFD

STLHD

STLAD

STLED

STLFÖ

STLHD

STLHD

STLID

STLHD

STLFD

STLHD

STEFD

STEHD

STEHD

STLFD

ŠŤĒĖŌ

ŠŤĹŀĎ ŠŤĹŀĎ

STLHD

STLFD

ŠŤĽHĎ

STLFD

STEFD

STLHD

ŠŤĹŦĎ

HATCH RACK SPORT FISH FAICH RACK

HATCH RACK

FAICH RACK
FATCH RACK
FATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK
FATCH RACK

HATCH RACK HATCH RACK HATCH RACK

HATCH RACK

HATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK
HATCH RACK

HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK

HATCH RACK

HATCH RACK HATCH RACK HATCH RACK HATCH RACK

FATCH RACK

HATCH RACK FATCH RACK HATCH RACK FAICH RACK

FATCH RACK

HATCH RACK HATCH RACK HATCH RACK

HATCH RACK

FATCH RACK FATCH RACK FATCH RACK

FATCH RACK HATCH RACK FATCH RACK HATCH RACK

HATCH RACK FATCH RACK FATCH RACK FATCH RACK

FATCH RACK

FATCH RACK

FATCH RACK FATCH RACK FATCH RACK

HATCH PACK

FATCH RACK FATCH RACK HATCH RACK

FATCH RACK

HATCH RACK

HATCH RACK

FATCH RACK

RACK

HATCH

RACK

RACK

RACK

FATCH FATCH FATCH FATCH

LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK COLE	TAG ID NUMBER	FILE NO
SAM R FAM SILITIAN STATEMENT STATEM	11111222222222222222222222222222222222	C55244998882479484189794934049388888888888788883384337377333887884474787788888888	· · · · · · · · · · · · · · · · · · ·	PERUBURURURURURURURURURURURURURURURURURUR	77774 24519 24519 2715678C714135C14682567853727C45648C157455649C3 2715555555555555555666666666666666666666	077778888889090000033333334444444557777779999999911111111122222223333333333

787

813

Ž87

762

787

914

41682 41682 41682 42782

42782

42782

42782

PAHSIMERO I PAHSIMERO I PAHSIMERO I PAHSIMERO I PAHSIMERO I PAHSIMERO I

PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI

ì

)

1

)

)

) ,

9243 9247

8247

8247

8249

8249

3249 8249

8809

8819

1495

1497

9.63 é

8838

8844

8645

A C

50423 50423 50423

50423 50423 50423

50423

50423 50423

50423

50423

50423

50423

50423

50423 50423

50423

50423 50423

50423

50423 50423

5C423 5C423

50423

50423

50423

50423 50423

(

1

(

(

(

(

(

(

(

CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE
######################################			RACKK RACKK	PAAHHSIIMMERROOIII PAAHHSIIMMERROOII WEERROOII PAAHHSIIMMERROOII WEERROOII WEERR	22222222222222222222222222222222222222	787888879888788887597888888888888888888		פטטטטדוטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	5852366C4795154126526919893C67035725610365158 66777745888855223339989456656783999990001101231465779 888888599989459599990001101231465779 88888859999999999999999999999999999	111111112222255555666777889880300707111111134466684695555555555555555555555555555555
50423 50423 50423 50423 50423 50423 50423 50423	STL+D STL+D STL+D STL+D STL+D STL+D STL+D STL+D	GREGON OREGEN 1DAHC IDAHO IDAHG UREGON IDAHG IDAHC	INDIAN GILL INDIAN GILL VCLUNTARY HATCH RACK HATCH RACK INDIAN GILL HATCH RACK HATCH RACK	OREGON ZON 6 GREGON ZON 6 SALMGN SEC 2 PAHSIMEROI PAHSIMEROI OREGON ZON 6 PAHSIMEROI PAHSIMEROI	90282 90282 12983 12383 40283 40283 42283 42683	889 914 914 914 9475 875 864	+>++++	AC AC AC AC AC AC	8200655 8201961 9614 3PSH0363 83PSH0365 3PSH0775 3PSH0838	8358 8358 8361 8384 8445 8465 8485

TCTAL TAGS: 176

ADULT RECOVE DATA CUDE	RY EY HA SPECIES	TCHERY AND D RECOVERY AGENCY	ATA CODE TYPE RECUVERY	LOCATION	RECUVERY LATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NO	
50424	ERPAN ********* STLHD			************** **************** PAHS1MERUI							
######################################		SSSS CO COCCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	ILLLLL GILLL GILLL GILLL GILLL GILLL GILLL GILLL GILLL INDIAN RAAC INDIAN RAAC INDIAN RAAC FIISHISHILLL INDIAN RAAC GILLL INDIAN RAAC R	CORRECTION NO. N.	22222211111111111111112222222222222222	889409406335368483701129438985373284483383489423874438443888889888888888888888888888888	∙┢╇╬╬╅╸╸╸ ┸╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	C289 5829966803 C289 5829966803 C289 70146266723 C2783 701462766723 C2783 701462766723 C2783 701462766723 C2783 701462766723 C2783 701462766723 C2783 70146277771777118888888888888888888888888888	44446336690014444444999333445557990111122337777799111112256667 828893358099011411112233333333333446444444465555555555 22222333111112223222222222222	

ACULT RECEVE	RY EY HA	ATCHERY AND	DATA CODE							
EATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NO
5044224 550044224 550044224 550044224 550044224 550044224 550044224 50044224 50044224 50044224 50044224	51111111111111111111111111111111111111	IDAHO IDAHC IMFS IMFS	FATCH RACK FATCH RACK HATCH RACK HATCH RACK SPORT FISH FATCH RACK HATCH RACK	PAHSIMEROI PAHSIMEROI	22222222222222222222222222222222222222	864 889 787 7813 813 8613 8614 8614 8614	エモエマエマエマエアル	\AAAAAJAJAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	8564725 564725 566725 5766725 8757767 875775 875775 97000 97000 97000 97000 97000 97000 97000 97000 97000	82558 82558 822661 822661 822664 8226664 8227777 822277775 82227775
5 C 4 2 4 5 O 4 2 4 5 O 4 2 4 5 G 4 2 4 5 C 4 2 4 FLN TCTAL:	\$11+0 \$11+0 \$11+0 \$11+0 \$11+0	IOAHC OREGON IDAHO IDAHC IDAHC IDAHO	VOLUNTARY INDIAN GILL HATCH RACK HATCH RACK HATCH RACK	SALMON SEC 1 OREGON ZUN 6 PAHSIMEROI PAHSIMEROI PAHSIMEROI	121582 95882 41583 41283 42683	514 967 914 914 1041	M F M	J 1 A D A C A C	G4726 82U4368 3PSH0506 3PSH06466 3PSH0649	8342 8361 8414 6428 8491
TCTAL TAGS:	84									

7 177777777777777777777777777777777777	+#FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	A ALOCOOCIO DO COOCIO ALOCOOCIO ALOCOOCIO ALOCOOCIO ALOCO	GILL NET HATCH RACK	JUAN DE FUCATOWORSHAK NATOWORSHAK NATOWORS	91781 111781 1	10153336176357833 *8800300037003 27293334274895033 00228928203784 44545555545444555 5544454454444	***************************************		124 141 141 132 142 133 133 142 133 133 143 133 143 143 143 143 143 143	05555555555555555555555555555555555555

ACULT RECOVE	ERY EY HA	TCHERY AND L		LUÇATION	RECOVERY	LENGTH	SEX	MARK CGCE	TAG ID	FILE NO
GATA CODE	3726123	RECOVERY AGENCY	TYPE RECOVERY	200411011	ČĀŤĒ	MM		CGCE	NUMBÉR	NO
17777777777777777777777777777777777777	######################################	Z7ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	RAGEKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	DODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	11111111111111111111111111111111111111	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	01834567890123456789C123444444444444444444444444444444444444	2223333333333333334444444444444455555555

)

ADULT RECOV	ERY EY HA	ATCHERY AND	CATA CODE							
CATA CUDE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAC ID NUMBER	FILE
######################################	######################################	A STANKE SANGERS OF THE FILL HELD TO THE SANGERS OF THE FILL HELD THE SANGERS OF THE SANGERS OF THE FILL HELD THE SANGERS OF THE SANGERS	CCCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	DODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	11111111111111111111111111111111111111	00000000000000000000000000000000000000		44444444444444444444444444444444444444	88888888888888888888888888888888888888	77777898888888888888999999999999999999
77777777 22222227777777777777777777777	######################################	GCN GCGH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH WAASSH	TROLL FISH TROLL FISH INDIAN TROLL SPORT FISH SPORT FISH TROLL FISH TROLL FISH INDIAN TROLL TROLL FISH SPORT FISH TROLL FISH	GARIBALDI GARIBALDI WASH AREA 2 KASH AREA 2 KASH AREA 2 KASH AREA 2 KASH AREA 2 WASH AREA 2	55122 60882 60882 61177882 61157882 660108882 661188882 61137882 6113188 773128 773128	627 6240 7420 75420 6300 6300 63100 64100 7150 633			82M1735 82M16 329316 681116 681116 681116 769237 67227 67227 7729112 611526 714411 662281 64381	82888 8282888 822228888 82228888 822288397 82222997 82222 8222 8222 8222 8223 8223 8223 82

ADULT RECOVE	RY EY HA SPECIES	TCHERY AND C RECOVERY AGENCY	ATA CODE TYPE RECOVERY	LCCAT 10N	RECOVERY CATE	LENGTH MM	SEX	CCCF WA RK	TAG ID NUMBER	FILE NO
106	######################################	AAAAANNNN HHAAAAANNNN HHAAAAGGGGGGHHHSSSSSSSHHHHHHHHHHHHHHAAAAAAAGGHAIIHH ASSNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TRULL FISH FATCH RACK	4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	22222222222222222222222222222222222222	76567676653000CC00000 • *359 • • 2108097234505530C5077 765676766583136770490 193 273465894C68077348888 877 6566657766666677	***************************************		11G382711 9081891225611 9081891225611 9081891225611 9081891225611 9081891225611 9081891225611 9081891225611 908189122561 908189122561 908189123888888888888888888888888888888888	77333388888111177777777775557777895556667777777897735229888888881111777777777777895555666777777777898888888888
		111611	TAIDTAN TOOLI	LIACH ARCA A	41083	60C		ΔC	80871	85 0 0
77777777777777777777777777777777777777	######################################	WASH WASH WASH WASH CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CASE WASE	INDIAN TROLL TROLL FISH TROLL FISH TROLL FISH TROLL FISH SPERT FISH NET TROLL FISH	WASH AREA 3 WASH AREA 2 WASH AREA 2 WASH AREA 1 NORTHERN T SOUTH NEST SOUTH NEST NORTH NEST	41978883333333333333333333333333333333333	7283 6721 7628 6728 671 8019 7260 824			8C871 835285 78385 78387 78387 83P776 115223 152223 152221 1533711 181C05 0087127	00000000000000000000000000000000000000

RUN TOTAL:

							,			
		MATCHERY AND D								
CATA CODE	SPECIĘS	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK COCE	TAG IC NUMBER	FILE NO
TCT#L TAGS:	234									
************ 50528 — HAGE **********		· ************************************	***********	******	********	*****	****		******	
5C528 5C528 5C528 5C528 5C528 5C528 5C528 5C528	FL CK	ALASKA NMFS NMFS IDAHC IDAHC OREGEN CANADA	SEINE FATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK INDIAN GILL GILL NET	KETCHIKAN E GRANITE D E GRANITE D TUCANNON HAT TUCANNON HAT TUCANNON HAT CREGON ZON 6 JUAN DE FUCA	81581 91581 100281 120581 120581 120981 120981 72881	480 485 444 444 470 470 475	********	A C C C A C C C A C C C A C C C A C C C A C C C A C C C C A C	25217 8402 8426 37 57 33 8102167 125446	8280 8192 9194 8199 8199 8199 8199 8216 8223
88688888888888888888888888888888888888	######################################	WASSH WA WASSH WASSH WASSH WASSH WASSH WASSH WASSH WASSH WASSH WASSH WAS	SPORT FISH TROLL FISH SPORT FISH SPORT FISH TROLL FISH	WASH AREA 1 WASH AREA 22 WASH AREA 22 WASH AREA 3 SUUTH WEST NORTH WEST SOUTH WEST ASTORIA AST	61882 72082 73182 70182 70182 53182 61182 61182 71282 71782 71482 90982 90982	6800 66490 7604 7604 77500 7750 7750	٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠		64292 72452 64656 63317 62568 L101127 01185367 82M2516 82M2516 82M2516 82M2516 82M2516 82M2516 82M2516	886 8997 89997 8222 8322 8333 8333 8333 8335 8335 8335
RUN TCTAL: 50528 50528 50528 50528 800 TCTAL:	FL CK FL CK FL CK FL CK FL CK FL CK	WASH WASH CANADA CANADA CANADA	TROLL FISH SPORT FISH TROLL FISH TROLL FISH TROLL FISH	MASH AREA 4 WASH AREA 2 SOUTH MEST SOUTH MEST SOUTH MEST	50283 62883 51783 52783 51783	789 740 785 742 743	: :	AE AC AC AC	41951 78302 207515 152542 207518	85 10 95 03 85 03 85 03 85 13
TCTAL TAGS:	28									
************ 50635 — HAGE ****	ERPAN	*****	******	. ***********	<i> </i>	****			*****	
50 635 50 635 50 635 50 635 50 635 50 635 50 635 8UN TCTAL:	**************************************	**************************************	INDIAN GILL INDIAN GILL HATCH RACK HATCH RACK SPORT FISH HATCH RACK HATCH RACK	************ OREGON ZON 6 OREGON ZON 6 PAHSIMEROI PAHSIMEROI DESCHUTES R PAHSIMERDI PAHSIMEROI PAHSIMEROI	31882 31192 51082 51082 100681 50482 50482	620 621 663 663 663 58C 635	******* * M P M M M	* * * * * * * * * * * * * * * * * * *	**************************************	************* 8295 8285 8333 8333 8227 8264 8266
50635 50635	STL+D STL+D	IDAHO IDAHC	FATCH RACK FATCH RACK	PAHSIMEROI PAHSIMEROI	41283 41283	787 838	F F	A E A C	3PSH425@ 3PSH0478	8431 8431

(

(

1

(

(

(

(

(

(

(

(

(

`}

2868 2828 ******	0215 8500508 *****) V) V : * * * * * * * * * * * * * * * * * * *	A = =	989 979	78515 78515	PAHSIMEROI UREGON ZUN 6	PATCH RACK	USF#5 104HD	3+715	9E905 9E905

									re1	:29AL 14E5:
8628	08271686	äλ	•	297 088	101885	MARM SPRINGS	INDIAN C15	OKECCN	130	SUN TCTAL:
######################################	######################################	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ኽኮወራተጐቭሽጥኖረካኩካቴካስካስቴካሪደጠጣኖቴካካስካሽጠካከሂደቴካከሪከζካፕግካክሂደኔዝ	7884575883784654547645571 7757476476847684768476847684768457684576	######################################	40 00000000000000000000000000000000000	CK ACCK ACCK ACCCCCCCCCCCCCCCCCCCCCCCCC	HOUSE AND A PART OF THE COLOR O	\$	พลสาราชานานานานานานานานานานานานานานานานานาน
9119 00	TAG IC RJANUA	AARK COCE	SEX	LENGTH MM	RECOVERY EATE	LUCATION	TYPE RECCVERY	RECOVERY	25EC 1E2	CATA CODE

ACULT RECOVERY -- EY HATCHERY AND CATA CODE

ACULT RECOVE	RY EY HA SPECIES	TCHERY AND D RECOVERY AGENCY	CATA CODE Type Recevery	LUCATION	RECOVERY CATE	LENGTH Mid	SEX	MARK COCE	TAG ID NUMBER	FILE NO
50636 50636 50636 50636 50636 506636 506636 506636 506636	STL FD STL FD	IDAHC IDAHC OREGEN IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	SPCRT FISH SPORT FISH EXPERIMENT FATCH RACK FATCH RACK HATCH RACK	SALMON SEC 2 SALMON SEC 2 SALMON SEC 2 CREGON ZON 3 PAHSIMEROI	1112881 128882 128882 4308882 43066882 44064882 4504488 4504488 550448	6866 6855 6811 7111 7111 584 6	プルフェフェスエエエエエ		5 911 4011 961 42 861 92 861 92 867 92 901 84 901 84 901 87 901 87 901 87	8190 8190 82133 82233 82233 82233 82233 82253 82266 82268
66666666666666666666666666666666666666	22222222222222222222222222222222222222	COCORREGGE ANNINNI LOCAMAHACCCCAMAHACAAAAAAAAAAAAAAAAAAAAAAA	HATCH RACK HATCH RACY VCLUNTARRY VCLUNTARROCK RACCK RAC	11112 1212 66666656565 IIII 1112 1212 66666656565 ROTICCCC CCCC NANNACCCCCC R ROTICCCCC CCCC NANNACCCCCC R REPROBLES SEED SO SEED SO SEED SO SEED SO SEED	429833 429833 429833 429833 429833 41583 41583	88788649 8957 **009505978524717388878888888899888877778787879777788888788888788998888797	└└ • • ¾ ← ፮ ← ← ፮ ← ₽		54827 5444 5444 78827 7882323235555555555555555555555555555555	1113836677826799999999383373666657777788888883333555573311143836677826799999938333736665777777888888833335555784444444464468888888888888888888888

ADULT RECOV	/ERY BY HA	ATCHERY AND	CAT# CODE							
DATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK COCE	TAG IC NUMBER	FILE NO
######################################	28888888888888888888888888888888888888	OCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HATTCHH RAATCHH RAATCH RAATCH	4 66666 PRODITITION IN THE PRODUCT OF THE PART HERE PRODUCTION IN THE PRODUCT OF	33333333333333333333333333333333333333	38338744774483334288794317974555015877827940987244438888786785788898878888888888888888888888		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	232778-0570621855458 2763 33556600355645563344 5585040214065552185905145785634342355882 45465817458134 665566053556455663344 558504021406555218590514578869127777781 5656677787777778 665566053646556666 443420445614469057799051369079990777777787 565677787777778 6655660510000070707070777777787 5656777877777778 675660666555668666 443420445614469057799051990799999999999999999999999999	77777744445555588885888217777777777777777777777997777777900050001111111111

_

٠	_	
•	-	

1698 1698 1698 1698 1698 1698 1698	24 V C H S A C C C C C C C C C C C C C C C C C C	0 V	ההחחחחח	50 61 61 61 61 61 61 61 61 61 61	271177 271177 271177 271177 28221177 28221177 2822177	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI	124 RACK HATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK	2HAQ1 2HAQ1 2HAQ1 2HAQ1 2HAQ1 2HAQ1 3HAQ1 3HAQ1	0+7155 0+7155 0+7155 0+71155 0+71155 0+7155 0+715	1669 1669 1669 1669 1669 1669 1669 1699 1
8978 8978 89724 9974 9978	9826 98866 8906 9906	3A 3A 3A 3A	22.522	:	7884 7884 7884 7884 7884 7884 7884 7884	PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI	124 RACK 124 RACK 124 RACK 124 RACK 124 RACK 124 RACK 124 RACK	24401 64401 54401 64401 54401	0017140 0017140 0017140 0017140 0017140 0017140	16905 76905 76905 76905 5063 75405 14101 NUR
9999538846455750668877175599999998888888888888888888888888	\$2551587888888888888888888888888888888888		えてとくそかかえそからててたそがそさらそかをかてて	C* PICSICPESCOSCOSCOPIZCESCOPIZCESSCOPI	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	PAHSIMEROI	INDIAN GILL SPORT FISH	NSFRACO NSFRAC	71155 71115 711115 711111111111111111	77777777777777777777777777777777777777
******	*****	*******	*****	*******	******	* * * * * * * * * * * * * * * * * * *	*****	*******	* * * * * * * * * * * * * * * * * * *	*********** PH - LEPOS **********
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•					əşt	1C1AL 1AGS:
									ह ५ १	: HATOT AUR
96898888888888888888888888888888888888	0.000	1111111111111111111111111111111111111	יה היה היה בהוצח היה היה מיה מיה מיה מיה מיה מיה מיה מיה	948884178877 94888841788788877 948888888888888888888888888888	######################################	PAPERSON PAP	PATCH RACK PAT	24401 04401 04401 04401 04401 04401 04401 04401 04401 04401	047155 047145 04	96905 96905 96905 96905 96905 96905 96905 96905 96905 96905 96905 96905
AO) E I I' E	TAG IU NUMBER	CODE NVEK	zex	ГЕЙСТН ММ	EVIE RECOVERY	ГСС∳11∩И	CODE TYPE RODE RY	TCHERY AND T AGENCY AGENCY	2 PEC 1ES	ADULI RECOVER

ADULT RECOVE	RY EY HA	TCHERY AND	EATA CODE							
CATA CODE	SPECIES	R ECUVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE
77777777777777777777777777777777777777		NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	HATCH H RAACKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	III 15234432231133666666666663245561 PODEEDEDEDEDEDEDORNNINNNINNNINNNINNNINNNINNNINNNINNNINNN	332222222222222222222222222222222333333	7778692 •444083982365C1737314028524154222448443844383944753449444884848484 7778C89 68113187409955385257603866516666636613161318618666633648484 189 8896888888787888779887887878777888888888	╅╬┸╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬╬	AAXAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	######################################	1133637882666666999999000000001119993344444444444446666999999999995557783355133334444444456666666666666666666666

)

1

)

ADULT RECOVER	RY EY HA SPECIES	TCHERY AND E RECOVERY AGENCY		LECATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCDE	TAG 1C NUMBER	F1LE NG
77777777777777777777777777777777777777	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	O COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	33333333333333333333333333333333333333	988934488839979782343383331878433444490488988384980 ••78848883983484604869883398344888398348348348988888888888	>	\AAA\AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	7412:51222 1338445 7809 47242568894556 45556 4555646467778 53889236 8903899555 51222 1338445 7809 47242568894556 455564667778 5388959 59099555 5133445 4655 60213333 513345 6021355 60	888833333555555777774444445555588888855555588888888

)

)

)

)

CATA CUCE	SPECIES	RECOVERY AGENCY		LOCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CODE	TAG 10 NUMBER	FILE NG
77777777777777777777777777777777777777	28888888888888888888888888888888888888	OCOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	INTERPRETATION OF THE PRODUCT OF THE	######################################	9389848844943788784348478949473 *8993838888888888888707865746442557734;84448844278888888888888888888888888888	⋝ਜ਼ਫ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਸ਼ਜ਼ਜ਼ਸ਼ਜ਼ਜ਼ਸ਼ਸ਼ਜ਼ਜ਼ਸ਼ਸ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਜ਼ਸ਼ਫ਼ਸ਼ਜ਼ਜ਼ਜ਼ਜ਼ਸ਼ਸ਼ਸ਼ਜ਼ਜ਼ਸ਼ਸ਼ਸ਼ਸ਼ਸ਼ਸ਼	AJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	F 6856989220091510 79011950235634757886566690462 9 667788890778885000757886500084855900848559008486820034 9 667788890778885000777801691038818559008886008200270272727273516912381666669796777112227272727272727272727272727272727	2555555555555566666666666699999999999911111117777770000077011122222222 444444444444444444444444444

ALULI KELL	VERY BY HA	ATCHERY AND	CATA CUDE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK COCE	TAC IC NUMBER	FILE NO
57777777777777777777777777777777777777	20000000000000000000000000000000000000	IDAHG IDAHC	HATCH RACK	PAHSIMEROI	33333323333333333333333333333333333333	9883884944490810299 •94 •9 988888888989898989888 86 8			2002 2002 2002 2007 2007 2007 2007 2007	333559911111333335566605 8385991111133335566605 844888999111433335566605 84449998888888888888888888888888888888
RUN TUTAL	: 249									
TOTAL TAG	S: 279									
			*******	*****						
51020					*****		***	****	******	
	STLFD	IDAHC	VCLUNTARY	SALMON SEC 5	O	686	M	ΛC	CC0C642C	8542
RUN TCTAL	- · - · -	IDAHC .								

ADULT RECOVE	RY EY HA	ATCHERY AND I	CATA CODE							
EATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LUCATION	RECCVERY DATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE NO
51C2C 5102C 5102C 5102C 5102C 5102C 5102C 5102C 5102C 5102C 5102C 5102C	STL+DD ST	IDAHC IDAHC IDAHC IDAHC IDAHC OREGCA IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	SPORT FISH SPORT FISH VOLUNTARY VCLUNTARY SPORT FISH	SAL MON SECUCION SECUC	1015 1015 1015 1015 1015 1015 1015 1015	6000550045820550 6113356833421336 6666666666666666666666666666666666	**************************************		U1059 U1361 U1419 U1462 283M1146 10907 10907 10909 12513 10916 10917 10918	22222888555558855555888888888888888888
TCTAL TAGS:	44									
**************************************	* * * * * * * * * * * * * * * * * * *	*****	*****	*****	********	****	** ******	****	*****	*** ** ** * * *
51021 51021 51021 51021 51021 51021 51021 51021	\$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0 \$11+0	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	SPORT FISH	SAL MON SEC 5 SAL MON SEC 3 SAL MON SEC 3 SAL MON SEC 1	102383 102383 112083 112083 112083 111283 111683 103983	646 615 615 646 646 6665 646	** * * * * * * * * * * * * * * * * * *	*** * * * * * * * * * * * * * * * * *	1 2036 1 2037 3 2 2 4 1 3 2 2 4 1 3 2 2 4 1 3 2 2 4 1 3 2 2 4 2 3 2 2 4 4 3 2 2 4 4 1 2 2 4 1 2 2 1	****** 8550 8556 8556 8557 8557 8557 8557 8554 8548
RUN TOTAL:	9									<i>55</i> K.
TCTAL TAGS:	5									

510222222222222222222222222222222222222	######################################	H0000000000000000000000000000000000000	SPURT FISH FATCH RACK HATCH RACK	NEWPORT L GRANITE D	9024833 10228833 102228833 102298833 102338833 1001338833 100133883 10012883 10012883 10129883 10129883 10129883 10129883 10129883 10129883	98774500000000000000000000000000000000000	*****************		083 M9 55C 11136 11146 11147 11148 11148 11152 11157 11167 11176 11178 11178 11178 11178 11178	42223333334445555522 5666633334445555522 8555555888888556665522

•

(

(

_	
_	

######################################	**************************************	**************************************	* * * * * * * * * * * * * * * * * * *	**************************************	######################################		HATCH RACK	** ** ** ** ** ** ** ** ** ** ** ** **	**************************************	*** *** *** *** *** *** *** *** *** **
*******	*******	· ** * * * * * * * * * * * * * * * * *	*****	******	******	*** *** * * * * * * * * * * * * * * *	** ** *** * * * * * * * * * * * * * * *	* * * * * * * * * * * * *	********* 55	1€17F 1765: □ ************
									9 4	SUN ICTAE:
######################################	7479 7479		てままさせるスクセまなでさままでまたまでまたまで	00000000000000000000000000000000000000	TT		## ## ## ## ## ## ## ## ## ## ## ## ##	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	אא איני הייני הייני הייני הייני הייני הייני הייני הייני הייני איני א	22222222222222222222222222222222222222
MO Elfe	TAG ID	CCCE	ZEX	LENGTH MM	RECEVERY DATE	LCCA 11 DN	CATA CODE RECCVERY	TCHERY AND I RECOVERY AGENCY	% EV HA	ADULT RECOVER

(.

ADULT RECOVER	RY EY HA	TCHERY AND I	CATA CODE							
DATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LGCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CUEE	TAG IC NUMBER	FILE
55100223 55110023 5511002 5511002 5511002 5511002 5511002 5511002 551100 551100 551100 551100 551100 551100 551100 551100 551100 551100 551100 551100 551100 5511	######################################		HATTOHH RRACCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	33333333333333333333333333333333333333	0G200000000000000000000000000000000000			111445668410332394889312455678911123580111111111111111111111111111111111111	2224444441488889999999999999000000000000000
TCTAL TAGS:	72									
102210 - HAGE	A P A N			***********						
10 2 2 1 0 10 2 2 1 0	+#FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	HT000000000000000000000000000000000000	FATCH RACK	DWORSHAK NAT DWORSHAK NAT DWORSHAK NAT DWORSHAK NO D GRANITE D D L GRANITE D	101882 101882 101882 1022882 1022482 902482 902882 102082 102082 901482 901482 901482 901482 901482 901582	44460000000000000000000000000000000000			2DF10F23 92F16 92797 922997 922994 922994 922995 922888 922888 922887 932143 933143 933143 933143	83318 83318 83318 83318 83318 83318 83318 83318 83319 83319 83319 83319 83319

ADULT RECCV CATA CODE	ERY EY HA SPECIES	RECOVERY AGENCY	CATA CODE Type Recovery	LCCATION	RLCCVERY DATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE NU
10000000000000000000000000000000000000	######################################	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	22222222222222222222222222222222222222	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	***************************************		99999999999999999999999999999999999999	9990010001111111112222222223333334444444444

		ATCHERY AND I								
CATA CODE	SPEC 1ES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE
10000000000000000000000000000000000000	######################################	NAWAWANAWANAWANAWANAWANAWANAWANAWAWANAW	HATCHH RAACCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	L GRANITTEED D DATT L GRANITTEED D DATT L GRANITTEED D D DATT L GRANITTEE NN NAATT L GRANITTEEN NN AATT L GR	92222222222222222222222222222222222222	00100000000000000000000000000000000000	}		42 C5292 302373E924467E35E2412003 344444446566675E2412003 699999999999999999999999999999999999	888889999990000001111166333347.344444444445555644448888889999990000001111166333333333333333333333
102210 102210 102210 1022210 1022210 1022210 1022210 1022210 1022210 1022210 1022210 1022210 1022210 1022210 1022210	######################################	WARENAAAAHH WARENAAAAAH WARENAAAAH CCAAAAAAH WAAAAAAH WAAAAAAA WAAAAAH WAAAAAA WAAAAA WAAAAA WAAAAA WAAAAAA WAAAAAA	TROLL FISH INDIAN TROLL SPORT FISH SPORT FISH IRCLL FISH SPORT FISH	WASH AREA A 46 WASH AREA AREA AREA ASTORIA WESST SOUTH WESST SOUTH WESST SOUTH WESST SOUTH WESST SOUTH AREA AREA AREA AREA AREA AREA AREA ARE	83333333333333333333333333333333333333	699291586774963969000000000000000000000000000000000			850000 4651 11981 46 11981 46 11981 155 11981 157 11981 157 1155 157 1155 167 1167 167 1167 168 1167 168 11185	9899911111117777776666 98999111111177777776666 49499000000000000000000000000000000

ADULT CATA C RUN TC	UDE	EY HAT SPECIES 21	TCHERY AND D RECOVERY AGENCY	ATA CUDE TYPE RECOVERY	LCCATION	RECCVERY CATE	LENGTH MM	SEX	MARK COCE	TAG 1D NUMBER	FILE NO
TCTAL	TAG S:	155		·							
				** *** * * * * * * * * * * * * * * * *							
11111111111111111111111111111111111111		######################################	COUDDDD COUDDDD COUDDDD COUDDDD COUDDDD COUDDDD COUDDDD COUDDDD COUDDD COUDD COUDDD COUDDD COUDD HATCH RACKK HATCH RACK HATCH RACKK HATCH RACK HATCH RACKK HATCH RACKK HATCH RACKK HATCH RACKK HATCH RA	A TITTI A AAAAD D D D D D D D D D D D D D D D	22222222222222222222222222222222222222	45539733000000000000000000000000000000000	** ** **		CTPL1542 CTPL1513 CTPL1542 CTPL1513 CTPL513 CTP	24007228889999999000007211111111222223333333444455555566 23711111889999990000072202222233333333333333333333	

-

•

.

2

CATA CODE	SPEC IES	ATCHERY AND I RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG 1D NUMBER	FILE NO
11111111111111111111111111111111111111	######################################	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	22222222222222222222222222222222222222	392000000000000000000000000000000000000	איביבדביביב איבייב איביב איביב איביב איביב איביב איביב איביב איבי איב איב		99999999999999999999999999999999999999	666607777778888888888888888888888888888

ADULT RECOVER	Y EY HA	TCHERY AND E	AT # CODE							
CATA CODE	SPEC IES	RECUVERY AGENCY	TYPE RECOVERY	LOCATION	RECUVERY CATE	LENGTH MM	SEX	COCE	TAG ID NUMBER	FILE NÜ
10 2211 10 2211 10 2211 10 2211 10 2211 10 2211 10 2211 10 2211	######################################	IDAHG IDAHG IDAHC IDAHC IDAHO IDAHC ALASKA ALASKA WASH	FATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK SEINE SEINE FATCH RACK	TUCANNON HAT KETCHIKAN PETERSBURG RINGOLD	92282 92282 92282 92282 92282 92282 92782 81782 81782	470 410 470 470 450 410 410 410 51	M		96889 96899 96991 96992 9693 46188 4858 128	8375 8375 83775 83775 83776 63764 8454 8498
RUN TETAL:	139							4 n	11270	u276
111 111 112 112 112 112 112 112 112 112	£₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		SPORT FISH INDIAN TROLL TROLL FISH INDIAN TROLL TROLL FISH TROLL FISH TROLL FISH SPORT FISH TROLL FISH	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	33333333333333333333333333333333333333	55666665777767566593724000000000000000000000000000000000000			11280 11280 11280 11280 11280 11290 11290 11290 11290 11290 11290 11290 11290 11290 11290 11290 11290 11290 11290 1290	84449999991112222777777688888899999911122222777777768888888884449999991112222277777776888888888888888888888888
RUN TETAL:	29									
ICTAL TAGS:	168									. <u> </u>

102239 102239 102239 102239 102239 1022239 1022239 1022239 1022239 1022239 1022239 1022239	STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD STLFD	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAEGEN OREGGON OREGGON OREGGON IDA	HATCH RACK HATCH RACK HATCH RACK SPORT FISH SPORT FISH VOLUNTARY VOLUNTARY SPORT FISH VOLUNTARY INDIAN GILL	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI SECUTION SECUTION SECUTION SECUTION SALMON SECUTION ZON EGGON EGGON ZON EGGON EGGON ZON EGGON ZON EGGON EGGON ZON EGGON ZON EGGON EGGON ZON EGGON EG	4128832 408832 408832 408832 408832 1112778 1112778 1112778 11127	\$6650589022294244 \$6650589022294244 \$66505890078508	#>\$##>>\$#\$\$#\$\$##		3PSHC417 3PSHC382 9PSHC388 9211 9225 92623 95738 9691 20141932 820141932 820156 820156 820156	00225754930111110 88448333333333333333333333333333333333

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECEVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK COCE	TAG IC NUMBER	FILE NO
99999999999999999999999999999999999999	20202020202020202020202020202020202020	NNNN OCOCOLOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	SSPORTT FRISISCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	R LN 5 5555 R ALN 6 6 5555 R ALN 6 6 6 R ALN 6 6 6 6 R ALN 6 6	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7251C0C00C555C05O5C9C05S595454555C005S595C5C45545U555O4OC5O5O3A4O5CO54C45595 92796611113316313156133538333316333353131833831866311313413663886833553 5655666666666666665666655656565656	╸╺┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸	AAAFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	### ##################################	9999271344666699995522444444663333777777779900505026799U344748411144445555559999927134466669999552244444444444444444444444444

ADULT RECOVER	AH YS Y	TCHERY AND (CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY EATE	LENGTH MM	SEX	CODE	TAG ID NUMBER	FILE NO
10000000000000000000000000000000000000	00000000000000000000000000000000000000		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	PAHSSIMERROOI PAHSSIMERROOP PAHSSIMERROOP PAHSSIMERROOI PAHSIMERROOI PAHSIMER	######################################	040455000550030000407005000500200500 186833111331134116691861311611121636138 65656666665666656766666666666666666665	+22244344444444444444444444444444444444		79C111622211721719601999999999999999999999999999999999	28628688688888888888888888888888888888
102239	STLFD	IDAHC	SPURT FISH	SALMON SEC 4	111783	737	M.	AC	U1069	8553
RUN TCTAL:	1									
TCTAL TAGS:	127									

102240 102240 102240 102240 102240 102240 102240	STL+D STL+D STL+D STL+D STL+D STL+D STL+D	DAAD IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	SPORT FISH FATCH RACK	SALMON SEC 5 PAHSIMERCI PAHSIMERCI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI	103182 506883 5003883 5003883 5004883 426883	635 686 686 686 737 660		A C A C A C A C A C A C C	9914 3PS+099C 3PS+1008 3PS+0948 3PS+1CC1 3PS+C945 3PS+08C9	84 16 8478 8478 8479 8484 8487 8492
RUN TCTAL:	7									01.50
102240 102240	STLFD STLFD	IDAHO IDAHO	SPORT FISH SPORT FISH	SALMON SEC 5 SALMON SEC 4	111283 111283	767 838	ţ.	A C A C	3C\$H0C97 3C\$H0C90	8556 8556

RUN TCTAL:

	ACULT RECOVER	RY EY HA	TCHERY ANE I	ATA CODE							
	CATA COCE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE
	TOTAL TAGS:	s									
	50454 - FAYE	DEN			****************						
	5C454 50454 5C454	SP CK SP CK SP CK	I DAHC I DAHC I DAHC	HATCH RACK FATCH RACK HATCH RACK	HAYDEN CREEK HAYDEN CREEK HAYDEN CREEK	62980 90380 72480	483 432 432	, 4	A C A C A C	881 882 883	8023 8023 9123
	FUN TCTAL: 50454 504554 504554 504554 504554 504554 5045	3 SPPPPPSSPPPSSPPP SSPPPPSSPPPPSSPPPP SSPPPPSSPPPPPSSPPPPPP	CREGON IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	INDIAN GILL HATCH RACK	CREGON ZON E HAYDEN CREEK	325881 825881 825881 825881 835381 835381 835581	674 686 683 7533 762 711 6637 635	* * * * * * * * * * * * * * * * * * *		8100741 85002 85002 855223 855223 855234 8552	8159 82011 82011 82213 82213 82213 82213 82213 82213 82213
127	, <u>5</u> C4 <u>5</u> 4	SP CK SP CK SP CK	IDAHO WASH OREGEN	FATCH RACK INDIAN CTS EXPERIMENT	HAYDEN CREEK YAKIMA OREGON ZON 4	90582 40382 40282	864 87Č	F	A C A C A C	P\$ 82U01275 82L13C1	8303 8345 8383
	TCTAL TAGS:	16		1							
	102125 - HAYE	A3C	•		*******					-	
	102125 102125 102125 102125 102125 102125 102125 102125 RUN TCTAL:	SPP CK SPP CK SPP CK SPP CK SPP CK SPP CK	IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO WASH	FATCH RACK FATCH RACK FATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK INDIAN CTS	HAYDEN CREEK YAKIMA	91182 91482 91482 90182 81582 82482 90582 91182 40382	686 660 737 686 711 610 737 762	5-24-1-5-2-6	A C C C A A C C A A C C A A C C A A C C A A C C A A C C A A C C A A C C A A C C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A	P12 P18 P16 P6 P1 P4 P8 P14 P595	3301 8301 8304 8304 8304 8304 8304 8304
	13 21 25 132125 102125 102125 102125 102125 102125	250525 25	IDAHD IDAHG IDAHC IDAHC IDAHG IDAHO IDAHO IDAHC	FATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK HATCH RACK FATCH RACK	HAYDEN CREEK	81183 902833 902833 902833 82283 83083 83083	8349 86864 86644 8638 8838	日マドママママ	ACC ACC ACC ACC ACC	H3S P0 CC1 H3S P0 CC1 H3S P0 C15 H3S P0 C15 H3S P0 C34 H3S P0 C32 H3S P0 C32	85443 85443 85444 85444 85444 8544

(

(

ATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	FCCATION	RECOVERY CATE	LENGTH MM	ŞEX	CODE	TAG IC NUMBER	FILE NC
UN TCTAL:	. 8									
GT#L TAGS:	17		·							
02126 - HAYD	JEN .	******		*************						
102126	SP CK	IDAHC	HATCH RACK	HAYDEN CREEK	70781	457	M	AC	8527	8294
UN TETAL:	1									
102126 102126 102126 102126 102126 102126 102126 102126	20000000000000000000000000000000000000	IDAHO IDAHC IDAHC IDAHG IDAHG IDAHC IDAHC IDAHC IDAHG	FATCH RACK FATCH RACK FATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK	HAYDEN CREEK	91182 90182 90782 91182 91482 81482 81482 80182	660 686 737 711 686 737 711 813 660	**************************************		P13 P7 P10 P17 P11 P19 P2 P3 P5	8301 8301 8301 8301 8301 8304 8304 8304
102126 UN 1CTAL:	SP CK	IDAHO	HATCH RACK	HAYDEN CREEK	701112	999	,			
			NATCH DACK	HAYDEN CREEK	83083	787	F	AC	H3SP0C11	8543
102126 UN TCTAL #	SP CK 1	IDAHO	PATCH RACK	HATDEN CREEK	33403	, , ,	·			
CTAL TAGS:	11									
**************************************	********** DEN ********			******						
102221 102221 102221 102221 102221 102221 102221 102221 102221 102221	SPP CKK SPP CCK SPP CCK SPP CCK SPP CCK SPP CCK	PAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	FATCH RACK FATCH RACK FATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK	HAYDEN CREEK	822883 822683 81229833 8229833 820083 83388 81883	737 737 737 762 762 813 686 787 711 838	*****	ACC	H3S P0007 H3S P0020 H3S P00209 H3S P00306 H3S P00202 H3S P00118 H3S P00113 H3S P0013	8543 8543 85543 85543 85543 85543 85543 855443 85544
RUN TCTAL:	10									
COTAL TAGS:	10									
*********	********	*****	******	*****	****		*****	****	*******	*** ** **
102222 - HAY	DEN			******					The second second second second	

. (

ADULT RECOVE	RY BY HA	ATCHERY AND I	DATA CODE							
CATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY CATE	LENGTH MM	SEX	MARK	TAC IC NUMBER	FILE
RUN TCTAL:	1								,	
192222 192222 192222	SP CK SP CK SP CK	IDAHC IDAHO IDAHG	HATCH RACK HATCH RACK HATCH RACK	HAYDEN CREEK HAYDEN CREEK HAYDEN CREEK	90683 82283 90983	787 787 660	M M	AC AC AC	H3SP3021 H3SP0004 H3SP0023	8543 8543 8544
RUN TOTAL:	3									
TCTAL TAGS:	4									
********** 50426 — KCC *********	**********	******	******	******	*****	******	* * * * * * *	*****	** ** ** * * * * * * *	***
50426 50426	SP CK SP CK	I DAHC I DAHC	FATCH RACK FATCH RACK	KUOSKIA NAT KUCSKIA NAT	90081 90181	767 698	******* M F	AC AC AC	*********** 8134 8133	********* 8163
RUN TETAL:	2			WOODKIP KAI	70101	690	r	AL	8133	9163
50426	SP CK	IDAHC	HATCH RACK	KOOSKIA NAT	42782	864	F	AD	2KSP0CC4	8293
PUN TCTAL:										
TOTAL TAGS:	3									
*********** 50427 - KCC! ********	SKIA	*******		******						
50427 50427 50427	SP CK SP CK SP CK SP CK	OREGEN IDAHE GREGEN	EXPERIMENT FATCH RACK	CREGON ZON 4 KOOSKIA NAT	41081 50.881	66) 622 665	M	A C	81L 23 68 813 7	8157 8163
50427 RUN TCTAL:	SP ČŘ 4	ÖREGEN	HATÉH RAÉK FATCH RACK	PELTON DAM PELTON DAM	82481 82481	665 686	M M	ÃĈ AĈ	818C173 818C152	8227 3227
TCT≠L TAGS:	,									
	. 4	***								
********** 50525 - KCCS	SKIA	*****	************	**********	*******	*******	* 4 4 * * * * * *		*****	
50529 50529	SP CK SP CK	IDAHC OREGCN	FATCH RACK SPORT FISH	KOOSKIA NAT SHERARS FALL	82482 71582	737 760	F بر	AE AC	2KSP49C5 82Y1651	8293 8393
RUN TCTAL:	2								25,1021	, co
5C529 RUN TCTAL:	SP CK 1	1 DAHC	HATCH RACK	KUOSKIA NAT	90683	838	F	AC	3KSP5541	8540

TCTAL TAGS:

	5518 5518 5518 5618 5618 5618 5618 5618	2618 1614 26168 2582018 216549 67659 636718	0 A 0 A 0 A 0 A 0 A	まっていれ・ そ	688 715 6188 098 0745 675	18706 18106 18217 18317 18317 18317 18308	KOOSKIV NVI KOCSKIV NVI KOCSKIV NVI OKECON TON 6 OKECON TON 7 OKECON TON 1	HATCH PACK HATCH RACK HATCH RACK EXPERIMENT EXPERIMENT GILL GILL NET	EBGCN TOAHC TOAHC TOAHC TOAHC TOAHC	ZB CK ZB CK ZB CK ZB CK ZB CK ZB CK ZB CK	000001 000001 0000001 0000001 0000001	
	1208 1208 1208 1208 1208	CKSP0GG4 OKSP0GG4 OKSPCB79	3.A 3.A	4	989 099 11 <i>L</i>	08706 08719 08878 08705	KOCZKIP NVI KOCZKIP NPI KOCZKIP NPI KOCZKIP NPI	FATCH RACK HATCH RACK HATCH RACK HATCH RACK	24401 24401 24401 24401	Zb CK Zb CK Zb CK Zb CK Zb CK	TOCESSO TOCESSO TOCESSO TOCESSO FUN TCTAL:	
	******** 1208 1208					08505 08505 08505 *******	*********************	**************************************	********** I DHAGI DHAGI DHAGI	2b CK 2b CK 2t CK 2k ******	TOCESO TOCESO TOCESO TOCESO TOCESO TOCESO TOCESO TOCESO TOCESO	
*	*****	*****	* * * * * * * * * *	* * * * * * * * * * *	*****	******	*******	*** *********	* * * * * * * * * * * *	*******	*****	
	•									Ţ	1CIAL TAGS:	
										τ	SUN TCTAL:	
	1208	OKZBDOBE	JA	W	989	08606	KCC2KTV NVL	натсн васк	2HAQ1	2ь ск	100359	
							****			7 1 7 1	***********************	130
*	******	· ***********	***	******	*****	******	****************	*** **********	****			
										5	:89A1 14191	
										Z	SUN TCTAL:	
	C 528	3K2622CF 3K262224	3 A 3 A	4 M	206 798	68538 685383	KNOZKIÞ NAT KOEZKIÞ NAT	HATCH RACK HATCH RACK	OHAGI DHAGI	2b CK 2b CK	26 3 0 2 26 3 0 2	
		7333370		·				·		9	FUN TCTAL:	
	E8 E8	Secons	āΑ	•	CIT	28105	KCCSKIA NAT KCCSKIA NAT	HATCH RACK HATCH RACK INDIAN CTS	OKECCN IDVHO	žb CK	7530S 7530G	
	6529 8528 6528	SK2642SC SK2643SC SK2643EF	3 A 3 A 3 A	# # #	669 787 869	28606 28702 28702 28702 28606	KOCZKIW NWI KOCZKIW NWI	HATCH RACK	OHAUI OHAUI	Žb ČK Zb ČK Zb ČK	26202 26202 26202 26202	
	5928 5928	5K264226 5K264254	àv a∀	4	67 <u>L</u> 57L	90382 38606	KOO2KID NAI KOO2KID NAI	HATCH RACK PATCH RACK	OHAQI OHAQI	ŽĞ ČK Žb CK	76 50 S	
										τ	SUATOT AUR	
	8163	5 € 1 8	ЭΑ	W	697	I 8806	KCCZKI¥ N¥I	НАТСН ВАСК	JHAQ1	26 CK	2025	

*	·女 雅 孝 淳 孝 淳 孝 孝 孝 ·	¥ 4 4 4 4 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5	* * * * * * * * * * * * *	*********	·	- 10 म प्राच के की है है - -						
	MO EIFE	TAG IC MUMBER	COCE COCE	2EX	LENGTH MM	RECOVERY	LOCAT184	RECOVERY TYPE	RECOVERY	SPECIES	EATA CODE	
								7007 418	I LUCK TATALI	74 44 1	Markii iala	

ADDLT RECOVERY -- BY HATCHERY AND CATA CODE

ADULT RECOVE	RY EY HA	ATCHERY AND	CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY CATE	LENGTH MM	SEX	MARK EOCE	TAG ID NUMBER	FILE NO
10C330 10C330 10C330 10C330 10C330 10C330 10C330 10C330 10C330 10C330 10C330	20000000000000000000000000000000000000	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC WASEGBN GREGIN	HATCH RACK INDIAN GIS INDIAN CTS	KUUSKIA NAT KUUSKIA NAT CREGON ZON G WARM SPRINGS	9912881 9912881 9912881 9912745881 9912745881 882221888 4422	578 85402 5620 9440 8113 8114 10100 8004 8254	2422243432F		81336 81338 813441 814423 814445 814447 811447 811477 811057	816655 816655 816655 816655 816655 811665 811669 81189 81199
RUN TGTAL:	ž 1								***************************************	7217
TCTAL TAGS:	28									
**************************************	SKIA		***********	**********					******	
102218 RUN TCTAL:	SP CK 1	1DAHO	FATCH RACK	KOCSKIA NAT	83182	495	М	ΑС	2KSP1971	8292
102218 102218 102218 102218 102218 102218 102218 102218	SPP CK SPP CK SPP CK SPP CK SPP CK	IDAHC IDAHO IDAHO IDAHO IDAHC IDAHO IDAHO	HATCH RACK HATCH RACK FATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK	KOCSKIA NAT KUOSKIA NAT KOCSKIA NAT KOCSKIA NAT KOCSKIA NAT KUOSKIA NAT KUOSKIA NAT	90683 90683 82383 83083 63083 83083 83083	737 673 686 711 660 838 686	₽ ₽ ₽		3KSPN 135 3KSP5473 3KSP5473 3KSP5421 3KSP5421 3KSPN114	8541 8541 8541 8541 8541 8541
RUN TCTAL:	7						·		31.31.11.1	0,741
TCTAL TAGS:	8									
**************************************		*****		*****						
102219 102219	SP CK SP CK	I DAHG I DAHE	HATCH RACK HATCH RACK	KUOSKIA NAT KOOSKIA NAT	83C83 83083	673 737	F.	AC AC	3KSP5387 3KSFN 1C3	8541 8541
RUN TCTAL:	2						·	7.5	2113711163	6341
TOTAL TAGS:	2									

102220	SP CK	IDAHU	HATCH RACK	KUOSKIA NAT	82383	737	* * * * * * * * F	** ** **** AC	3KSP5534	8541

1	ADULT RECEVER EATA CODE RUN TCTAL:	SPECIES	TCHERY AND D RECUVERY AGENCY	ATA CODE TYPE RECCVERY	LOCATION	RECEVERY DATE	LENGTH MM	SEX	MARK COCE	TAC IC NUMBEP	FILL NO .
	TOTAL TAGS:	1									
	100348 - MACH ************************************	(A) •1++++++++ SP CK SP CK		******	**************************************		********** 720 640		******** AC AC		8152 F157
132	11111111111111111111111111111111111111	MUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUN	ÖGCGGGCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	LITULLL GENT LELLL GENT LETTLLLL GENT LETTLLL GENT LETTLLL GENT LETTLLL GENT LETTLLL GENT LETTLL G	GREGOR FLA AT EGGOR FLA AT E	11111111111111111111111111111111111111	777777877777 6776777777677777766677777777	╓╸╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╾╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒		2212 2475 2475 28475 2010 2010 2011 2011 2011 2011 2011 201	8115566666666777777777888888888888888888

i	ADULT RECOVER GATA CODE	SPECIES	TCHERY AND E RECOVERY AGENCY	CATA CODE TYPE RECOVERY	LECATION	RECOVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE NO
	100348 100348 100348 100348 100348 100348	SP CK SP CK SP CK SP CK SP CK	ÜREGON IDAHC IDAHG IDAHG WASH	INDIAN GILL FATCH RACK FATCH RACK FATCH RACK INDIAN CTS	CREGON ZON 6 SAWTOOTH SAWTOOTH SAWTOUTH YAKIMA	32182 81982 82682 83182 41082	845 914 864 86		A C A C A C A C A C	8 2U CO G 2 S 2 S 5 S 6 9 5 9 C	8282 8301 8301 8301 8344
	TCT4L TAGS:	63	******	***********	********	****	********	** ** ** * * *	* * * * * * * * * * *	*******	*****
1	100323	********* SU CK	**************************************	FATCH RACK	######################################	********** 81179	*********** 645	** ****	******** AC	********** 7952810	**************************************
122	TO T	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		HATCH RACK	CWORSHAK NAT DWORSHAK NAT DWORALL MCCALL MCCCALL	CQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ	77678777777777777777777777777777777777	ヹゖ゙゙゚゚゚゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゚゚゚゙゙゙゙゠゚゚゙゚゚゙゙゙゙゙゙゙		7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	111166666666677777777888888888631111111111

ω

ADULT RECEVER				1 ((C1 71 ON	DE COVERN	LENGTH	SEX	W A D V	TAG ID	FILE
CATA CODE	SPECIES	RECUVERY AGENCY	TYPE RECCVERY	LOCATION	RECCVERY CATE	MM	25%	MARK CODE	NÜMBĒŘ	้าขึ้
100323 100323 100323 100323 100323 100323 100323 100323 100323 100323 100323 100323 100323 100323 100323	**************************************	IDAHC IDAHC	FATCH RACK FATCH RACK FATCH RACK HATCH RACK INDIAN CTS	MCCALL MARM SPRINGS WARM SPRINGS WARM SPRINGS WARM SPRINGS WARM SPRINGS COWLIT HEST NORTH LEST CENTRAL	98800 98800 98800 9998800 990598800 990598800 990598800 990598800 990598800 990598800 990598800 990598800 990598800 990598800 990598800	691372122222286588774C91112222228658877774C911	2.		93352 9443 9443 94445 99122 9922 9923 9923 9923 9923 9923 992	9444445556666682222269999999999999999999999999
	SU CK	WASH	INDIAN GILL	CREGON ZON 6	33181	890		ΑC	81072	8152
100 323 100 3223 100 23223 100 23223	######################################	MASH IDAHC I	HATCH RACK	MCCALL MC	311 47881 47881 11735881 862200881 862200881 8622008881 86220068881 88022006881 88022006881 88022006881 88022006881	9555470231056705550 1555547023105616705550 15555955885005135550	•		81093 811705 812775 822776 822776 82278877 8228877 8229995 82299967 82299967 822967 822967	81673333344444556661777333334444455666822222222222222222222222222222
10TAL TAGS:	9C	****	*******	*******	****	*****	******	* * * * * * * * *	** * * * * * * * * * * * * * * * * * * *	****
**************************************			*******							****
10C325 RUN TCTAL:	SU CK 1	OREG CN	SPORT FISH	UREGGN SEC 8	72879	281	М	AC	07900950	. 7910
10C325 10C325 10C325 10C325 10C325	SU CK SU CK SU CK SU CK	IDAHO IDAHO IDAHO IDAHO IDAHC	HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK	MCCALL MCCALL MCCALL MCCALL MCCALL	90280 80980 90280 90280 90280	559 622 521 559 584	M	A C A C A C	818 823 824 827 824	8026 8026 8026 8026 8027

ADULT RECOVE	RY EY HA	TCHERY AND	CATA CODE							
CATA CODE	SPECIES	R ECOVERY AGENCY	TYPE RECOVERY	LUCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG 16 NUMBER	FILE
######################################	θ washing an annum which which washing an annum washing an annum washing washing an annum washing washing an annum washing washin		CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	######################################	00000000000000000000000000000000000000	834460178487737169881394112136113311931403612843344339385 95556555555454564555454555555555555555	<u> </u>		63238045681678902345678901023678967890134567890136790234 010345555558888899999999433333333111122222222222222221111	77781111111133333333333333334444444455555555
19C 3 25 10C 3 25	00000000000000000000000000000000000000	IDAHG IDAHC IDAHC IDAHC IDAHC IDAHG IDAHG IDAHC IDAHC	HATCH RACK	MCCALL	80981 81481 81281 91581 82881 91581 82881 92181	813 813 813 836 800 787 638 737	F F M M • M F F	A C A C A C A C A C A C	811C 8111 81112 82069 8271 82773	8160 8165 8165 8172 8173 8173 8173
10č325 10č325 10č325	SU CK	IDAHC IDAHC IDAHC IDAHO	FATCH RACK FATCH RACK FATCH RACK FATCH RACK	MCCALL MCCALL MCCALL	90081 82881 90181 91481	902 775 803 767	F F F	A C A C A C A C	8273 8274 8277 8277 8279 828¢	8173 8173 8173 8173

ADULT RECOVER	Y EY HA	TCHERY AND D					CEV	ua ne	TAG ID	FILE '
CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY CATE	LENGTH MM	SEX	CODE	NU MB ER	NO
1000235555555555555555555555555555555555	nananananananananananananananan reerererererererererererererererererer	IDAHG IDAHC	HATCH RACKK HATCH	MCCALL MCCALL MCCCALL	98111111111111111111111111111111111111	334338878135388777351588718 886813383516134888125233813 88788678867778888888778			2345891349C1256789G1245679C 2888891349C1256789G1245679C 888888888888888888888888888888888888	81773 81773 81774 81774 81774 81774 81775 81775 81775 81775 81775 81775 81776 81776 81776 81776 81776 81776 81776
RUN TCTAL:	39									
10C325 10C325 10C325 10C325 10C325 10C325 10C325 10C325 10C325 10C325 10C325	00000000000000000000000000000000000000	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	FATCH RACK HATCH RACK HATCH RACK FATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK	MCCALL	82482 82782 90782 81182 82082 82782 82782 81782 81782 81782 83182	87C 87C 880 2920 9250 89C 89C 81C 100 960	*		91047 911135 911135 911223 912223 91223 91223	9222992 8422992 8422992 8422994 844 844 844 844 844 844 844 844 844
TCT/L TAGS:	112									
**************************************	; * * * * * * * * * &	************	**********	*******	, * * * * * * * * * * * * * * * * * * *	******	*******	*****	*****	*****
102117 102117 102117 102117 102117 102117 102117	SU CK SU CK SU CK 6	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	HATCH RACK	PCCALL MCCALL MCCALL MCCALL MCCALL MCCALL MCCALL	90782 90382 90782 83182 90382 90782	560 560 540 690 580	E	4 C 4 C 4 C 6 C	9178 9118 9122 9124 9127 9128	8292 8294 8294 8294 8294 8294
102117 102117 102117 102117 102117 102117	SU CK SU CK SU CK SU CK	IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	HATCH RACK FATCH RACK FATCH RACK FATCH RACK HAICH RACK HAICH RACK	MCCALL MCCALL MCCALL MCCALL MCCALL MCCALL	81883 81283 81583 90183 90183	780 740 720 790 700 930	F F F M M	AC AC AC AC	3MS UO 223 3MS UO 227 3MS UO 274 3MS UO 296 3MS UO 295 3MS UO 292	8518 8519 8522 8523 8523 8523

)

)

)

)

}

)

ICTAL TAGS: 21

ľ

(

(

(

(

(

(

AGULT RECOVER	Y EY HA	TCHERY AND C	ATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NG
			******		*****	*****	*****	******	** * * * * * * * * * * * * * * * * * * *	****
103130 MCCA			******							
102128 102128 102128 102128 102128 RUN TCTAL:	SU CK SU CK SU CK SU CK SU CK	IDAHC IDAHC IDAHO IDAHO IDAHO	FATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK	MUCALL MCCALL MCCALL MCCALL MCCALL	50382 90782 90782 50782 90682	460 560 580 540	****	A C A C A C A C	9112 9105 9111 9114 9117	3292 8292 8292 8292 8294
102128 102128 102128 102218 102218	**************************************	I DAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	HATCH RACK FATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK	MCCALL	80225122223333333333333333333333333333333	879200 879200 8780200 10780600 10780600 1078000 107800 107			3 M S S U C C C C C C C C C C C C C C C C C	12444455557785011111 22444445555577850188333 555555555555555555555555555555555
TCTAL TAGS:	25									*****
100/17 NC/4			******							
102412 PLN TCTAL:	SU CK 1	OREGON	EXPER IMENT	CLAISOP	61082	168	•	ΔC	82Y0542	8334
102412 102412 102412 102412 102412 102412 102412 102412 102412 102412 102412 102412 102412 102412 102412	######################################	WASH IDAHO	SPORT FISH HATCH RACK	MASH AREA 2 MCCALL	52983 80883 80883 80883 80883 808883 808883 808883 809883 809883 809883 809883 809883 809883 809883 809883	50555555555555656	***************************************		78124 3MS U00002 3MS U00003 3MS U00001 3MS U00011 3MS U00011 3MS U00014 3MS U00016 3MS U00016 3MS U00017 3MS U00017 3MS U00022 3MS U000222 3MS U000222	8444444555555555 97005 00 1700000000 855555555555555555555555555555

(

(

,

)

)

.)

)

j

)

ACULT RECOVE	ERY BY HA	TCHERY AND D	CATA CODE			•	•			
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECCVERY CATÉ	LENGTH MM	SEX	MARK COCE	TAG 10 NUMBER	FILE NO
139	UNINDUMUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUN		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK		######################################	00000000000000000000000000000000000000	<pre> EXECTENTAL SETENTIAL /pre>		######################################	6666666777777777888888899999990000000000

ADULT RECOV	ERY EY HA SPECIES	TCHERY AND D RECOVERY AGENCY	ATA CUDE TYPE RECOVERY	LOCATION	RECOVERY CATE	LENG TH MM	SEX	MARK CODE	TAG IC NUMBER	FILE NC
12222222222222222222222222222222222222	UNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUN		CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	LILLLILILILILILILILILILILILILILILILILI	33323337333733373373333333333333333333	00000000000000000000000000000000000000			\$ 6 6 5 5 4 2 1 1 5 9 6 7 5 1 0 9 6 7 5 7 4 7 5 6 7 4 7 7 4 7 7 6 7 4 7 7 7 7 7 7 7 7 7	55566666666777777778888888888888899999900000001111111112222223333344556666655555555555555555555

(

(

(

(

(

(

)

)

.

,

1

,

,

ADULT RECEVE	ERY EY HA	TCHERY AND D	CATA CUDE		,					
CATA CODE	SPEC IES	RECUVERY AGENCY	TYPE RECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE NÜ
13333333333333333333333333333333333333	MUNUMUNUMUNUMUNUMUNUMUNUMUNUMUNUMUNUMUN		CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	73773777777777777777777777777777777777	00000000000000000000000000000000000000	**************************************	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	135823509841097589911111111111100037442176421765210984308542176432654310 00000000000000000000000000000000000	88888888888888888888888888888888888888

)

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NU
13313333333333333333333333333333333333	VOUVUIUVUUVUUVUUVUUVUUVUUVUUVUUVUUVUUVUUVU		CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	######################################	33333333333333333333333333333333333333	00000000000000000000000000000000000000	+=+===================================	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	721CC8765C48321971CC4421235C515C26718648510522C8782451876C457624214721922243333332555444476662883878787C5998810C534444783353787624714721922243333332555444476662883878787762998810C5344447833534476662660000000000000000000000000000000	78889999999990000000111111222222222233333144445666667777788888999999000011111 1111111111111112222222222

.

(

÷

:

ADULT RECOVER	Y EY HA	TCHERY AND D	ATA CODE									
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECEVERY DATE	LENGTH MM	SEX	MARK CODE	TAG IC NUMBER	FILE NO		
102413	SU CK	WASH	SPORT FISH	WASH SEC 8	60883	•	•	AC	00027628	8537		
RUN TCTAL:	174											
TCTAL TAGS:	176											
######################################												
130234 130234 100234 100234 100234 100234 100234 100234 100234	\$1140 \$1140 \$1140 \$1140 \$1140 \$1140 \$1140 \$1140	IDAHG IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC NMFS NMFS	FATCH RACK FATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK INDIAN GILL INDIAN GILL	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI CREGON ZON 6	5 c 179 4 c c 779 4 c c 779 4 c c 779 4 c c 779 4 c c 6779 4 c c 6779 4 c c 778 9 c c 78	\$66334 663384466 5555666	••• 1222		9PS H0008 9PS H0005 9PS H00027 9PS H0002 9PS H0001 9PS H0011 9PS H0012 9PS H0013 SH0073	78) 2 78) 2 78) 2 78) 2 78) 2 78) 3 78) 3 78) 3 79] 6 79] 6		
10C234 10C234 1CC234 1CC234 10C234 10C234 10C234 RUN TCTAL:	11 STL+D STL+D STL+D STL+D STL+D STL+C	OREGON I DAHC I DAHC I DAHC I DAHC I DAHC I DAHC I DAHC	INDIAN GILL HATCH RACK	CREGON ZUN 6 PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI	83079 41580 42280 41580 41580 41580 41580	632 635 660 711 635 711 584	# F F M F M F	FC ACT ACT ACC ACC	7964969 0PSH0009 0PSH0006 GC484 0PSH3C35 JPSH3C35 0PSH3C66	7909 8702 8002 8003 8003 8003 8006		
ICTAL TAGS:	18											
	~ . ~ .			* * * * * * * * * * * * * * * * * * *								
10C235 10C235 10C235 10C235 10C235 10C235	STL FD STL FD STL FD STL FD STL FD STL HD	IDAHC IDAHC IDAHC IDAHO IDAHO NMFS	HATCH RACK HATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK INDIAN GILL	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI OREGON ZON 6	42779 42479 42479 41379 41379 90078	533 610 635 584 711	• ##**	A C A C A C A C A C	9PSH3C03 9PSH3CC4 9PSH0331 9PSH0C11 9PSH0C11 9PSH0C14 SHC371	7802 7802 7802 7803 7803 7916		
10C235 10C235 10C235 RUN TCTAL:	STLFD STLFD STLFD	DAHC IDAHG IDAHU	FATCH RACK FATCH RACK HATCH RACK	PAHSIMER() I PAHSIMER() I PAHSIMER() I	42580 41580 41680	635 635 660	F F	A C A C	0PSH0032 6PSH0052 0PSh0060	8303 8603 8003		

TETAL TAGS:

ABULT RECOVE	KY EY HA	ICHERY AND L	CATA CODE							
CATA CODE	SPEC 1ES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG IC NUMBER	FILE
**************************************	GAFA		· * * * * * * * * * * * * * * * * * * *							
100236	STLFD	OREGEN	SPORT FISH	WASH SEC 8	62878	640	F	FC	07803033	7919
FUN TCTAL:	1									
100236 100236	STLFD STLFD	IDAHE NMFS	FATCH RACK HATCH RACK	PAHSIMEROI WELLS CAM	40079 10079		•	A C A C	9PSH0013 SH0074	7893 7916
RUN TETAL:	2								,	
10C236 10C236 10C236 10C236 10C236 10C236	STL+D STL+D STL+D STL+D STL+D STL+D	GREGON IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC	INDIAN GILL FATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK	OREGON ZON 6 PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI	90279 42580 41580 41880 41880 50580	675 686 737 669 610 660	* 6 6 6 7	A C C A C C A C C A C C A C C A C C A C C	79G 0243 0PSH0015 0PSH0027 0PSH00247 3PSH00249 0PSH0022	7909 8003 8003 8003 8003 8003 8000
TOTAL TAGS:	9				•					
100243 - KIA6	CAGA		*************							
4333443344344344334443443443444344434443444344434444	22222222222222222222222222222222222222	IIDAMEASSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	SPORT FISH SPORT FISH SPORT FISH GILL INDIAN GILL SPORT FISH	SSECONNO CONTROL CONTR	00000000000000000000000000000000000000	414 •62548388119405 •35056449C4044950 818 91139G78U16813 13138888518188531 875 56665655665566 666665556565656566	₹₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		52 C5C27528 0 447 1107C27528 0 534 4107C252 0 538 32114142 0 599AHH11414172C3 0 809BHH114142 0 999ABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	804444555558888033499000000000000000000000000000000

-

	•	•					,			
ADULT RECOVE	RY EY HA	TCHERY AND D	CATA CODE							
CATA CUDE	SPEC JES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MA BK CUCE	TAG IC NUMPER	FILE NG
33344333333333333333333333333333333333	00000000000000000000000000000000000000	IDAAHUC OAAHUC OAAAHUC OAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	PAHHSISIAM MERRODI I PAHHSISIA	11111111111111111111111111111111111111	456700445 •94444445540449992405044445095340050009 •34 586766556 55555566565555555666555566666665 55	ませゃ サチョンネカッカメマッコマスコルオススマコ・ヌッカスコマスンスマンスとでは メルカス サー・サー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー		7 1111111112222222222222222222222222222	8811112222332366666778888890222223333444445555566666678888891222222333333333333333333333333333
					22102	. 7.		4.0	0.30.00.50	0101
1003443 10003443 10003443 10003443 10003443 10003443 10003443 10003443 10003443 10003443	57141150 57141150 571411111111111111111111111111111111111	GREGGN NMFS IDAHC ICOAHC I	INDIAN GILL FATCH RACK SPORT FISH SPORT GILL INDIAN GILL INDIAN GILL INDIAN GILL	OPEGON ZON PAHSIMEROL SALMON SECUE SALMON SE	340781 10024481 100224581 100224581 110223181 11101481 1111481 1111581 1111581 1111581 1111581 9039	676 7186 7187 7181 7781 7781 7781 7781 7	***************************************		82U C 2 5 C 41 64 836 64 836 67 836 77 5 11 127 85517 85517 85519 85500 6 85100 11 6 6 4 8100 11 6 6 4	8271113312222222444 828188312822222444 8118822222224444 82882222222222

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MA FK CODE	TAG IC NUMBER	FILE
######################################	8 14 14 14 14 14 14 14 14 14 14 14 14 14 1	NNN GGCCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	LLL GISH KRACCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	NN THE REPORT OF THE PROPERTY	1112V2222V2222222222222222222222222222	777777676711177278621497772767676777777777776767671112161177777777	┪═┰╸┪┱┪┎┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪┪		178 2734 2164 2178 2178 2178 2178 2178 2178 2178 2178	4451111112222666666880;;;;;;;;;;;;;;;;;;;;;;;;;;;

48

|--|

RECCVERY STAD

LOCA 110N

LENGTH MM

ZEX

PILE NC TAC 10 9384UA KECCVERY TYPE

SBECIEZ

ACOLT RECOVERY -- BY HATCHERY AND CADE

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG 10 NUMBER	FILE
44444444444444444444444444444444444444	22222222222222222222222222222222222222		PRACECKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	D I I I I I I I I I I I I I I I I I I I	01111111111111111111111111111111111111	*39441454499545904095009404405504601395094945599300454440040556496940958 \$58\$18388553835181534658188143318111835315858355865555665655556496940958 \$555575455581888133181113531585835556555665655556656555566565555665655558	*************************************	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	501235267570751644501591242634782468459G1693238816189324583435685623 13333675677788778899999999101011111223332167881618932458243999999999999999999999999999999999999	233336666677777788888888888999999999900000101111122222333334444555555666 11111111111111111111111111

ADULT RECOVER	RY BY HA SPECIES	TCHERY AND D RECOVERY AGENCY		LCCATION	RECCVERY CATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE
10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344 10C344	511400 5714100 5714100 5714100 5714100 5714100 5714100 5714100 5714100 5714100 5714100 5714100 5714100	IDAHC IDAHC	SPERT FISH HATCH RACK			79555549 •004934306 • 655585655	•• ##\$##\$\$\$		221 8 2223 2 2224 5 22226 6 22227 1 622327 2 2233 6 2223 7 2223 6 2223 7 2223 7 2225 7	8114477 8114477 8114447 8114448 8114448 81145 8115 8115 8115 81
44444444444444444444444444444444444444		N LUCUCUU ANNNANANANANANANANANANANANANANANANANA	INDIAAN GGILLL INDIAAN GGILL INDIAAN GGILLL INDIAAN GGILL INDIAAN GGILLL INDIAAN GGILL INDIAAN GGILL INDIAAN GGILL INDIAAN GGILL INDIAAN GGILL INDIAAN GGILL	NIICCCCCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNN	22211111111111111111111111111111111112212222	2011747661802732224492945291565524520177777777787786 17711324766180273222449294529156552452017777777777877786 18778881800273222449294529156767777777777777877786	₹₹₽₹₹₽₹₽₹₽₹₽₹₽₹₽₹₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		9 8707564283674535277411 055 8 1157564283674535277411 055 9 126746 912112234255560245 454 2 26777 01411201112131455560245 454 2 26777 01411011111111122356245 454 2 26777 014110111111111111111111111111111111	274133311222444444555555555555555551111112222222468888888888888888888888888

CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECUVERY CATE	LENGTH MM	S EX	MARK COCE	TAG IE NUMBER	FILE NO
44444444444444444444444444444444444444	%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%		CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	HERREROUGH IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	22222222222222222222222222222222222222	6777111775771667630717776717777777777666681888136676676677777776667667777777777	┖ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┡ ┣ ┡ ┣	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	46778123455C2C1251575C27C44567812679G314567923412434567635561644332328C 555678888889911111266677777777777777777777777777777	66668888888888888888888888888888888888

ACULT RECGVE CATA CODE	RY EY HA Species	TCHERY AND D RECUVERY AGENCY	ATA CUDE Type Recovery	LCCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCDE	TAG ID NUMBER	FILE
100344 100344 100344 100344	STLFD STLFD STLFD STLFD	IDAHC IDAHC WASH WASH	FATCH RACK VOLUNTARY VOLUNTARY HATCH RACK	PAHSIMEROI SALMON SEC 5 WELLS CAM WELLS CAM	50482 101181 112681 110081	737	• F h	A C A C A C A C	9063 10001 11194 11195	8267 8497 8547 6547
RUN TCTAL:	126									
100344 100344	STLFD STLFD	OREGEN Idahe	SPORT FISH FATCH RACK	DESCHUTES R PAHSIMEROI	100382 42683	760 787	M M	AC AC	82 Y1264 3PSH0843	8378 8492
RUN TCTAL:	2									
TGTAL TAGS:	280									
************ 100345 - NIA	GAFA			*****						
100345 100345	STLHD STLHD	I DAHC I DAHG	HATCH RACK FATCH RACK	PAHSIMEROI PAHSIMEROI	43082 42782	813 762	F	A C A C	859C 8891	8231 9253
RUN TCTAL:	2									·
TCT#L TAGS:	2									
. 10001/ 1114	~ 4 ~ 4			* * * * * * * * * * * * * * * * * * *						
100346 100346	SILFD	IDAHC IDAHC	SPORT FISH FATCH RACK HATCH RACK	SALMON RIVER PAHSIMEROI PAHSIMEROI	30881 32781 41781	584 610 838	۲ F	A C A C A C	8132 1928 2110	8104 8119 8139
100346 100346 100346	STL+0 STL+0 STL+0	IDAHG IDAHG IDAHC	FATCH PACK HATCH PACK	PAHSIMEROI PAHSIMEROI	42881 43081	864 838	F M	A C	2158 2241	8142 8149
PUN TCTAL:	5									
TCTAL TAGS:	5									
400017 6:44	~ 4 5 4			* * * * * * * * * * * * * * * * * * * *						
100347 100347	STL+D STL+D	IDAHC IDAHC	HATCH RACK HATCH RACK	PAHSIMEROI PAHSIMEROI	42980 3098J	€35 559 584	F F M	A C A C A C	0PSH0059 CPSH0062 OPSH00C3	8003 8005 8020
100347 100347	STLFD	IDAHC	HATCH RACK FATCH RACK	PAHSIMERDI PAHSIMERDI	50980 50980	61C	Ë	ÄČ	OPSHOODI	8323

TOTAL TAGS:

RUN TETAL:

ADULT RECOVE	RY EY HA	ATCHERY AND	CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECGVERY	LCCATION	RECUVERY DATE	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	F1LE NO
********** 102156 - NIA *********	**************************************	******	***************	******	******	*******	******	***	*****	* * * * * * * * * * * * * * * * * * * *
15666666666666666666666666666666666666	DOCODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	CN FOR A HO FOR A HO FO	SPORT FISH FISH SPORT FISH SPORT FISH SPORT FISH SPORT FISH INDIAN FISCH INDIAN FISCK INDIAN FISCK INDIAN FISCK INDIAN FACCK FATCH RACCK FATCH FATCH F	9 CCCNNCTI 9 CCCNNCTI 9 CCCNNCTI 9 CCCNNCTI 10 SECCONCTI 10 SECCONCTI 11 SECCONCTI 11 SECCONCTI 12 SECCONCTI 13 SECCONCTI 14 SECCONCTI 15 SECCONCTI 16 SECCONCTI 16 SECCONCTI 17 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCTI 18 SECCONCT 18 SECCONCTI 18 SECONCTI 18 SECCONCT 18 SECCONCT 18 SECCONCT 18 SECCONCT	21111111122222222222222222222222222222	•CC5320 •C404554004554009999449000 •O • • • • • • • • • • • • • • • • •	• >	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	74 362 74	611266031122289000455688883334444995555777 681122600311233334444444444555555555555777 688888888888888888888888
1021156 1022156 1022156 1022156 1022156 1022156 1022156 1022156 1022156 1022156 1022156 1022156 1022156	20000000000000000000000000000000000000	IDAHO	FATCH RACK FATCH RACK FATCH RACK SPORT FISH	PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI PAHSIMEROI SECCE SALMON SECCE SALMON SECCE GARMON SECCE SALMON SECC	41283 41283 41283 41283 911782 101782 1017882 1016882 1016882 101682 101682 101782 101782 101782 101782 101782	762 7111 762 7112 762 787 730 7111 6611 762 682 737 660 660	ተከተቀተተቀቀ «የተተቀቀተ		3PSH10445 91511 91923 91995 4 52 91995 4 52 9205 92203 92205 8297 92205 8297 92205 8297 92205 8297 92205 8297 92205 8297 9221 8297 9221 8297 9221 8297 9221 8297	950 3379611 44379611 444233333337555556666 88883333337333333333333333333333333

ADULT RECOVE	RY EY HA Species	TCHERY AND E RECOVERY AGENCY	ATA CODE TYPE RECOVERY	LCCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG IC NUMBER	FILE NO
66666666666666666666666666666666666666		NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	SHEDSHED HE HELD STANDER TO THE FEBRUARY SHED HELD STANDER TO THE FEBRUARY SHED STANDER STAND	RREARRESSESSESSESSESSESSESSESSESSESSESSESSES	222222222222222222222222222333333222222	60C1C77176C7777661	┱┎┎┾╇┲╅╫┰╫┲╫╫┱╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8 2635 8 2635 9 00112237556623579099999999999999999999999999999999999	6666777777222222666669933344001111188488888998999666667777772222226666699333444001111188488888998999666677777722222266666993334440011111884888889989998988888888888888

ADULT RECOV	ERY EY HA	TCHERY AND	CATA CODE							
CATA COCE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK COCE	TAG IC Number	FILE
16666666666666666666666666666666666666	**************************************		CKKKKKHHHHHIKKKKKKKKKKKKKHHHHHHHHHHHHHH	UTILITICO COLLINITITITICO COLLINITITITICO COLLINITITITITITITI COLLINITITITI COLLINITITITI COLLINITITITI COLLINITITITI COLLINITITI COLLINITI COLLIN	######################################	677166171777777777777623150177777777777777777777777777777777777	┍┢╘╫╫╅╅╅╅╇╅╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇	מפפפטיייייייייייייייייייייייייייייייייי	######################################	00000014444669900001111111222466322224444444444444444444444

	•	•	
t	J	٦	
۲	7	٠	

	VERY EY HA				DECEMEN V	LENGTH	SEX	MARK	TAC IF	FILE
CATA CUCE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	MM	267	COCE	TAG ID NUMBER	NU
15666666666666666666666666666666666666	00000000000000000000000000000000000000		HATCH RACK	PAHHSSIIMMEERROUI PAHHSIIMMEERROUI PAHHSIIMMEERROUI PAHHSSIIMMEERROUI PAHHSSIIMMEERROUI PAHHSSIIMMEERROUI PAHHSSIIMMEERR	37337333333333333333333333333333333333	2111027777777788777777676633381 6111663338188811177177777666177777777777	• <25277777777777777777777777777777777777		128844735712357215255915962058845770138864735522357215255915962017676783664 22886473552235721525673688969696969696969696969696969696969696	888881111333334445555668888898888888888888888888888888
TOTAL TAGS	3: 242									
****	*****	****	*******	* * * * * * * * * * * * * * * * *	****	*****	*****	***	****	****
102157 - N	(IAGARA 444444444***	*****	******	********	********	*****	** * * * * * *	****	** ** ** ** ** *	
102157	STL+D	IDAHC	VCLUNTARY	SALMON SEC 7	o	•	•	AC	VCL0431	8546
RUN TETAL:	: 1		•							
102157	STLFD	OREGON	EXPERIMENT	GCEAN	71480	303	•	AΓ	SF0016	8041
RUN TCTAL:	: 1									
102157 102157 102157 102157 102157 102157 102157 102157 102157	511+D 511+D 511+D 511+D 511+D 511+D 511+D 511+D 511+D	OREGON OREGON IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IOAHO IOAHO IOAHO	INDIAN GILL INDIAN GILL FATCH RACK FATCH RACK SPORT FISH	CREGON ZON 6 UREGON ZON 6 PAHSIMEROI PAHSIMEROI SALMON SEC 5 SALMON SEC 4 OREGLN ZON 6	31582 31582 51682 51682 101781 102481 1023181 111481 111481	621 7683 584 584 5765 610 737	##******		82UC963 82UJ867 9495 5494 8365 8365 8380 8512 8511 8510 81UC022	8281 8332 8332 8181 8181 8183 8232 8272 8272 8206

)

)

ADULT RECEVE	RY EY H.	ATCHERY AND	CATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MA RK CC C E	TAG ID NUMBER	FILE
10377 10377 10377 10377 10322	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	GUNN GEGGONA GEGGONA GERREGANG GERRANDA	INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL SEINE RACK HATCH	CREEGGON REROUI PARHSIMMERROUI PARHSIMERROUI PARHSI	81111112222222222222222222222222222222	80939545505554005454445094940 • • 47938383831333814638388883158581 4556656665455556	¥ </td <td></td> <td>81101136 811011</td> <td>66663116668804444555566688835777623333333333444444444444445556665888882357778222222222222222222222222222</td>		81101136 811011	66663116668804444555566688835777623333333333444444444444445556665888882357778222222222222222222222222222
102157 102157 102157 102157 102157 102157 1022157	22222222222222222222222222222222222222	COOCATA DO COOCATA DO COOCATA DA	HATCH RACK SPORT FISH FATCH FISH SPORT FISH	THESE 44 RESTS 5 1 2555 5 IT COCOCOCO E ROBERT VOCCOCORROLO S REST SON SON S REST SON SON S REST SON S REST SON S REST	33222222222222222222222222222222222222	711 737 737 7386 7317 7386 737 7486 737 7490 6350 737 7490 737 7490 7306 7306 7306 7306 7306 7306 7306 730			212 212 212 212 213 214 215 215 216 217 217 217 217 217 217 217 217	02555556666775522226666993333333333333333333333333333

ACULT RECOV	ERY EY FA	TCHERY AND D	ATA CODE							
CATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CODE	TAG 10 NUMBER	FILF NG
15777777777777777777777777777777777777		ONNNNNN NNNNNNN GGGCCGCCGCGGGGGGGGCCCCCCCCCC	LLLLLLL LLLLLLL LLLLLLL LLLLLLL LLLL	OOR R RAGGO COOL OF RAGGO COOL	22222222222222222222222222222222222222	07777778 76767776677776767677777777677777677776666	• ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1567542 78591332C114283352872223333 3552447550769 10111247C1 756 221167542 78591335287223333 3552447550769 10111247C1 756 221167542 7859135287223333 3552447550769 10111247C1 756 221167542 78591555 3552445550769 1011111111111111111111111111111111111	33333362J69999995555777778880JGJQJQJQQCGCGJQCGQLLLLLLLLLLLLLLLLLLLLLL

O
Ŋ
_

0648 0648 0648 9******	9 55 50 HS d E 5 6 5 0 HS d E	J V J V J V * * * * * * * * *		219 619 569	E 82 T 7 E 82 T 7 E 82 T 7	***************	НАТСН ВАСК РАТСН ВАСК РАТСН ВАСК	DHAUI DHAUI DHAUI	04715 04715 04715	192201 192201 192201

									3 3 2	:23A1 JATOT
ପ୍ରକୃତ୍ୟ	ጎፍፁሶግግል	24	_	610	50015				£31	: JATOT NUR
918111かごでごとりかりタタタタタインを全てでも1988は11カックラでもためので、11のタクタケで、では、1990年のでは、	CALCACOTATATATATATATATATATATATATATATATATATA	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	תאי חחהיק אל בער בחח החיים בל בל בער בל הלבור בל הלא מורים הלא מורים הלא מורים הלא מורים הלא מורים הלא מורים ה לא	60. IT. TILTTTILGTTILTTTATTATATATATATATATATATATATATATATAT		CUCCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	RESIDENCE OF THE FILL OF THE FOLLOWING THE FILL OF THE	CY EACH CONTROL OF THE CONTROL OF T	\$	77777777777777777777777777777777777777
3119	01 941	W RK	ZEX	LENGTH	RECOVERY 0ATE	LCCATION	TYPE	RECOVERY	25EC 1E2	ADULT RECCVE
							2003 4143	AMA VOUDT	*** ^0 10	ANINI DECEME

ADULT RECOVE	ERY EY HA Species	TCHERY AND D RECOVERY AGENCY		LOCATION	RECOVERY CATE	LENGTH MM	SEX	PAFK COCE	TAG IC NUMBER	FILE NO
11111111111111111111111111111111111111	20000000000000000000000000000000000000		CKK H HHAHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH			50054140826400470000005125904505055005005050540055500540005 4050540005400050054005540005400054000540005005	F F	AANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	194 194 194 194 194 194 194 194 194 194	22179224636C0090000000000022222222217929999902222444444666633333777799C00022179224636C099000000000000000000000000000000000

CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY CATE	LENGTH MM	SEX	MA RK CGDE	TAG ID NUMBER	FILE NO
41111111111111111111111111111111111111	**************************************	GBGGCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	CKKKHKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	INTERPRETATION OF THE CONTROL OF THE	33323373373373373373333333333333333333	50755C00545C0405507060504610550600590C5C5C5C4450050CC4CCCCCCCCCCCCCCCCCC	• - < < < > < < < < > < < < < < < < < < <		######################################	

ADULT RECOVE	RY ++ EY HA	TCHERY AND D	CATA CODE							
CATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECGVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE NC
102241 RUN TOTAL:	STLHD 148	OREGON	INDIAN CTS	WARM SPRINGS	91482	580	•	AD	8271672	8521
102241 102241 102241 RUN TCTAL:	STLFD STLFD STLFD	IDAHC IDAHO IDAHC	SPORT FISH SPORT FISH SPORT FISH	SALMON SEC 4 SALMON SEC 5 SALMON SEC 5	110483 111283 111383	787 762 635	F F	A C A D A C	3CSH14Q6 3CSH0C88 3CSH0222	8555 8556 8556
TETAL TAGS:	151									
*********** 102242 — NIA **********	* * * * * * * * * * * * * * * * * * *	************	**************	**************	**********	************	** * * * * * * * *	*********	*************	****
22244222222222222222222222222222222222		IDAHC IDAHC	FATCH RACKK HATCH RACKK HATCH RACKK HATCH RACKK HATCH RACKK HATCH RACKK HATCH RACK HATCH RACK HATCH FILSH HATCH FATCH HATCH FATCH HATCH FATCH FATCH FATCH FATCH FATCH FATCH FATCH FATCH FATCH HATCH FATCH FA	PAHSIMERROII	33333333333322233233333333333333333333	CCC60C50C0180004591 •C109C5C00C40004C5555544555C0C50C66666666655657 67656666666566666666556665566666666	ママホホテナテルカーカーカーカーカーカースをスカホスをカースをカースをカースをプランプラーカースをファンスカースをファンスカースをファンスカースをファンスをプランプを受ける。		8 4 4 2 2 3 3 4 4 5 2 4 4 2 4 4 5 2 3 3 4 4 5 2 4 4 2 4 5 2 3 3 3 4 5 5 1 1	J002222229.330002812446692222443333790226993344781333333333333333333333333333333333

ADULT RECOVE	RY EY HA	ATCHERY AND	CATA CODE							
CATA CODE	SPECIES	R ECÚVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATÉ	LENGTH MM	SEX	MA RK CODE	TAG ID NUMBER	FILE NO
102242 102242 102242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242 1022242	\$11.00 \$10.00 \$1	IDAHO IAHO IAHO IAHO IAHO IAHO IAHO IAHO I	FATCH RACK FATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK FATCH RACK INDIAN CTS	PAHSIMEROI	33333333333333333333333333333333333333	0595553354000350050 · • 65666666666666666666666666666666666	>₩ ₽₽₩₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		343 343 343 343 343 343 343 343 343 343	7337668 477768 477768 477768 477768 844788 84479 8448 8449 99 99 99 99 99 99 99 99 99 99 99 99
132242 RUN TETAL:	STL+D 1	I DAHG	SPORT FISH	SALMON SEC 4	102083	635	F	AD	9993	8490
102243 - NIA ************************************	GAFA ***********************************			************** **************** SALMON SEC 5						
RUN ICTAL: 102243 102243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243 1022243	1	HOGOGONN AAAHHOO AAAAHHOOGONN AAAAHHOOGONN DODDAAAAHHIOOORRRA HIDODAAAAHAGGGGGGAAAH HIDODAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACSH HATCH PALSH HATCH FISH SPORT FISH INDIAN GILL INDIAN GILL INDIAN GILL INDIAN FISH INDIAN FISH INDIAN SPORT FISH SPORT FI	PAHHER SSECON TITLES SON ERRORD TO ALL MONTH	33333333322222222222222333333333333333	545500650050111105523C280544 3833668311132343233201541388 6566666666656665666555	+++************************************		3PPSH0437 3PPSH0438 3PPSH0438 3PPSH0337 3PPSH0337 3PPSH5033 3PPSH5036 3PPSH5036 9449UUU225 822UU225 822UU225 822UU325 822UU325 822YY126 822YY126 822YY126 822YY126 827705H0 96779SH0 9778SH0 9778SH0	990002222252211111000012257 83330222252211111000012257 8444444353555557788991257 8848888888888888888888888888888888888

ADULT RECCV	ERY EY HA Species	TCHERY AND D RECOVERY AGENCY	CATA CODE Type Recovery	LCCATION	RECGVERY DATE	LENGTH MM	SEX	MARK COCE	TAG 1D NUMBER	FILE Nú
33333333333333333333333333333333333333	22222222222222222222222222222222222222		KKKH HATCCHH RAACCKKKKKKKKLL ATCH RATCCHH RAATCCHH RAATCCH RAATCCH RAATCCH RAATCCH RAATCCH RAATCCH RAATCCH RAA	PAALLMAMSSISIAM MEERRAAALHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHA	333333733737373737333333333333333373373	45400000000555454540044554400450555044550556057505650050005500559040240004504504 56566666666656565666556455665666666666	┵┺┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸	\A\\A\\A\\A\\A\\A\\A\\A\\A\\A\\A\\A\\A\	1812654 77113424223512 6289C691C 45C99476195541997896111448195778C91 1812654 7711382424236611557788890C 4C1133337249123424366146179688561557777 61 9895895 4551555560C 4C1133337724911234243666146915968557777 61 9895895 62000000000000000000000000000000000000	781224699922463777799999990266677777779990441133444444556668999946667789888888888888888888888888

ADULT RECOVER	RY BY HA	TCHERY AND D	ATA CODE							
CATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECOVERY	LCCATION	RECOVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE NO
132243 102243 102243 102243 102243 102243 102243 RUN TCTAL:	\$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0 \$TL+0	IDAHC IDAHC IDAHC IDAHC IDAHC IDAHC WASH	FATCH RACK HATCH RACK FATCH RACK FATCH RACK VOLUNTARY HATCH RACK	PAHSIMERDI PAHSIMERUI PAHSIMERUI PAHSIMERUI PAHSIMERUI SALMEN SALMEN WELLS CAM	42283 42283 42683 42683 42683 32283	610 660 660 635 610	F F F M	A C A C A C A C A C A C	3PSH0676 3PSH06771 3PSH07783 3PSH0791 3PSH0796 100007	8490 8492 8494 8494 8494 8497 8497
TETAL TAGS:	107	*****	*******	*****	** ** * * * * * * * * * * * * * * * * *	******	* * * * * * * * * *	: * * * * * * * *	****	* * * * * * * * * * * * * * * * * * * *
*********	4 4 4 4 4 4 4 4 4 4 4			* * * * * * * * * * * * * * * * * * * *			****	*****	****	****
102404 102404	STLFD	IDAHC IDAHC	VCLUNTARY VCLUNTARY	SALMON SEC 5 SALMON SEC 5	0	584 686	Ę Ņ	AC	VCL 3429 VCL 6421	8545 8545
RUN TCTAL:	2									
10044 10044 10044 100244 100244 100244 100224 100224 100224 100224 10024	22222222222222222222222222222222222222		SHEET STATES AND	COUCACOCACACACACACACACACACACACACACACACAC	33333333333333333333333333333333333333	24556654G55CCCCCCCC6666C56G55C5CCCCCCCCCC	ルスカンドー・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・		100001140000110000110000110000110000110000110000	4 4 4 4 4 4 4 5 5 5 5 5 5 5 6 6 3 3 3 3 5 1 1 1 1 1 1 1 1 1 3 3 3 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5

TOTAL TAGS: 37

ADULT RECOVER	RY EY HA	TCHERY AND D	AT A, CODE							
CATA CUCE	SPEC 1ES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY DATE	LENGTH MM	SFX	COCE	TAG ID NUMBER	FILE NO
**************************************	SAFA			*******						
1 02450 102450	STLFD	IDAHC IDAHC	VCLUNTARY VCLUNTARY	SALMON SEC 5 SALMON SEC 5	0	584 584	F F	A C A C	VOL 0426 VCL 0424	8545 8545
RUN TCTAL:	2									
10000000000000000000000000000000000000	22222222222222222222222222222222222222		SPORT FISSH VCLUNTT SPORT FISSH VCLUNTT SPORT FISSH VCCLUNTT SPORT FISSH	COCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	32333322233332333333333333333333333333	00547005500660000900007464555440060 66656666666666666565656665556666	Პ ႥႥႥႥႥჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅჅ		8622185455897651100000000000000000000000000000000000	######################################
TETAL TAGS:	35									
100214 - RAP	ID R			****						
10C214 10C214 10C214 10C214 10C214 10C214 10C214	22 CK 22 CK 22 CCK 22 CCK 22 CCK 23 CCK 24 CCK	IOAHC IDAHC IDAHC IDAHC IDAHC IDAHC IDAHO IDAHO IOAHC	HATCH RACK	**************************************	62179 621679 61679 61479 62279 61679 63079	457 483 558 483 483 508 508 432	M M M M M M	4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C	9F SPC 158 9R SPC 169 9R SP 169 9R SP 169 9R SP 169 9R SP 168 9R SP 168 9R SP 168	7934 7905 7905 7906 7906 7906 1906 1906

RUN TCTAL:

u

	ADLLT RECOVER	SPECIES	RECOVERY AGENCY	CATA CUDE Type Recovery	LOCATION	RECCVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG 10 NUMBER	FILE NU
167	1000214 1000214 10002214		IDAHC	FATCH RACK HATCH RACK	ERRERRERRERRERRERRERRERRERRERRERRERRERR	60000000000000000000000000000000000000	65766110110066161470464056656 6838668844056656 683668844056656 683668846566866 683668846566868 68366866 6836686868 68366868 68366868 68366868 68366868 683668	. *************************************		871053289233737398762678923589235888888888888888888888888888888	22222222222222222222222222222222222222
57	10C214 10C214 10C214 13C214 13C214 RUN ICYAL:	SP CK SP CK SP CK SP CK SP CK	CREGEN IDAHE IDAHE IDAHE IDAHO	INDIAN GIEL HATCH RACK HATCH RACK HATCH RACK HATCH RACK	OREGON ZON 6 RAPID RIVER RAPID RIVER RAPID RIVER RAPID RIVER	40281 81481 72581 82781 90081	829 711 889 762 864	M F F F M	A C A C A C A C	8101022 8102 8108 8194 8225	8157 8160 8163 8168 8169
	TCTAL TAGS:	43	******	***	*******						
	**********	. E . P. *********	******		*****	********	********	******			
	10C415 13C415 10C415 10C415 19C415 19C415 10C415 10C415	8 555555555 555555555 55555555 555555 5555	IDAHC IDAHC IDAHC IDAHG IDAHC IDAHC IDAHO IDAHO	HATCH RACK	RAPID RIVER RAPID FIVER RAPID RIVER RAPID RIVER RAPID RIVER RAPID RIVER RAPID FIVER RAPID RIVER RAPID RIVER	62080 62180 22180 622080 700880 62880 70280	4837 450839 45559 5559 5508	*****	ACC AACC AACC AACC AAC	8567 8655 8655 8655 8655 8665 8665 8665	8322 8322 8329 8329 8329 8329 8029 8029
	100415 100415 100415 100415 100415 100415	SP CK SP CK SP CK SP CK SP CK SP CK	WASH CN CREGGEN CREEGEN CREEGEN CREEGEN GREEGEN	INDIAN GILL EXPERIMENT EXPERIMENT EXPERIMENT EXPERIMENT EXPERIMENT EXPERIMENT	OREGON ZON 6 GREGON ZON 2 GREGON ZON 2 GREGON ZON 4 GREGON ZON 4 GREGON ZON 4 OREGON ZON 4 OREGON ZON 4	31781 41481 41681 41681 41681 41681 40881	690 750 751 720 713 690 670	• W E F F F F	ADD AAD AAD AAD	64921 8110107 8110113 8112063 8112069 8112070 8112366	8152 8157 8157 8157 8157 9157

CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY	LENGTH MM	SEX	MARK CODE	TAG ID NUMBER	FILE NC
55555555555555555555555555555555555555	აბისისისისისისისისისისისისისისისისისისის	NNRN GGGGGHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	TILLL FGILLK FGILLL 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11111111111111111111111111111111111111	777776 6 666767777577676767677777766667717777666 5777766115711772107177777766 6677777776676777777777766 577776767677777777	**************************************		C346 4851 2C600 13564C7756136762578451265C156785C12457851314252157543212576146 LUUUQQCCQC5655566667777766888889999999999999999999	788890000444444466666667777772888888888889999990000001111111111122225988888888888888888888888	

ACULT RECOVER	Y EY HA	TCHERY AND D	ATA CODE							
CATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECOVERY CATE	LENGTH MM	SEX	CUDE	TAG IC NUMBER	FILE NO
100415 100415 100415 100415 100415 100415 100415	SPP CKK SSPP CKK SSPP CKK SSPP CKK	IDAHC OREGUN OREGUN OREGON OREGON CANAGON OREGON	HATCH RACK INDIAN CTS INDIAN CTS INDIAN CTS INDIAN CTS INDIAN CTS SEINE HATCH RACK HATCH RACK	RAPID RIVER YAKIMA YAKIMA YAKIMA WARM SPRINGS NORTHERN PEL TON DAM PEL TUN DAM	112781 41181 41681 40581 42481 80581 82481 91381	669 7255 7366 7885 7885 7875	• • • • • • • • • • • • • • • • • • •	A C C C A C C C A C C C A C C C A C C C A C C C A C C C A C C C C A C	8386 8105633 8105624 8105644 8105751 170466 818C175 818C472	8191 8219 8219 9219 8219 8223 8223 8223
RUN TCTAL: 100415 100415 100415 100415 100415 100415 100415 100415 1006415	#	NN CGGCGCGCCCCC GGCGCCCCCCCCCCCCCCCCCCC	GILL NET GILL NET GILL NET HATCH RACK HATCH	UREGOOD RELIVER RAPPID RELIVER RAPPI	22222222222222222222222222222222222222	2738915343453397290 • 56420 273898111681188687 666234 888888888888888888888888888888888888	#2422E422Z444H44EX4 • • • • • • • • • • • • • • • • • • •		82131 911315 911315 911445 911445 911445 911445 911445 911445 911455 911667 91178 911667 91178 91788 9	224555556668889944411111 882299999999999444888888888888888888888
TCTAL TAGS:	120									
**************************************	* * * * * * * * * * * * * * * * * * *	******	• * * * * * * * * • • * * * * * * * * *	**************	** ** ** ** ** ** ** *	***********	** *****	********* ******	****	******
10C 424 13C 424 1004 24 1004 24 13C 424 10C 424	SP CK SP CK SP CK SP CK	IDAHC IDAHO IDAHO IDAHG IDAHG IDAHC GREGEN	FATCH RACK FATCH RACK HATCH RACK FATCH RACK HATCH RACK FATCH RACK SPORT FISH	RAPID RIVER	62680 71080 62080 63080 61380 72380 63080	483 711 508 457 483 508 610	W 44 64 64	A C A C A C A C A C A C	874 844 845 856 857 879 808602	80 22 80 28 80 29 80 23 80 33 81 27
FUN TCTAL:	7									0152
100 4 2 4 100 4 2 4	SPP CKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	WASH OREGON OREGON OREGON OREGON OREGON OREGON OREGON IDAHC	INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL INDIAN GILL EXPERIMENT INDIAN GILL INDIAN GILL INDIAN GILL FATCH RACK HATCH RACK	OREGON ZON 6 OREGON ZON 4 OREGON ZON 6 OREGON ZON 6 OREGON ZON 6 OREGON ZON 6 RAPIC RIVER RAPID FIVER	32781 40281 40281 40281 32781 40881 33681 61281	663 709 755 739 783 710 670 735 711 686	•⊞⊬╬┺╬┸┺	ACC ACC ACC ACC ACC ACC ACC	64923 8101017 8101021 81011051 8101105 81L2367 8100862 8100862 8104	815555 815555 815555 81555 81556 8166 816

(

1

(

1

(

EATA CUDE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LCCATION	RECEVERY CATE	LENGTH MM	SEX	MARK COCE	TAG ID NUMBER	FILE
######################################	L WANDERSTONDERS	GOCCOORDE COCOORDE CO	RAGUCKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	######################################	76667767776777767777 677776777676 777576777767333191111777538C90377776777767777677776777767777677777777	3 • □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	9567C34 1C2983289C17,469C3457823667C2347C648912134586692345676129963 11111111111111111111111111111111111	44444445666666677777777888999999999999999999999
100424 100424 100424 100424 100424 100424	SP CK SP CK SP CK SP CK SP CK SP CK	IDAHC IDAHO IDAHC IDAHC IDAHC IDAHC IDAHO	HATCH RACK	RAPID RIVER RAPID RIVER RAPID RIVER RAPID FIVER RAPID FIVER RAPID FIVER RAPID FIVER	90782 83182 90782 83182 83182 83182	838 813 889 914 838 838	# # #	A D A C A C A C A C	913C 9133 9136 9137 9138 9139 9154	8294 8295 8295 8295 8295 8296

٠,	1		
	ī		

CATA CODE	SPEC IES	RECOVERY AGENCY	T Y PE RECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	CODE	TAG ID NUMBER	FILE NO
13C424 10C424	######################################	IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHGG IDAAHG IDAAG I	HATCH RACK	RAPPID RIVVEER RAPPID RAPPID RRIVVEER RAPPID RRIVVEER RAPPID RRIVVEER RAPPID RAPPID RAPPID RAPPID RAPPID RAPPID RAPPID RAPPID RRIVVEER RAPPID RAPPID RRIVVEER RAPPID RRIVVEER RAPPID RAPPID RRIVER RAPPID AR R	22222222222222222222222222222222222222	887648802337288883445 ··04 88766334611863331618 98888888888888888888888888888888888	, W • * ********************************		915801 91664 91664 917775 917777 911776 911776 911887 911887 911899 911899 91899 91899 91899 91888 9188 91888 91888 91888 91888 9188 91888 91888 91888 91888 91888 91888	82998 82998 822998 822998 822999 82299 82299 82299 82299 82299 8333000 833444 8338 83338 83338 83388 83388 83388 83388
TCTAL TAGS:	108									
**************************************				*****************						
10 21 13 10 21 13	**************************************	I DAHO IDAHO ICREGON CREEGON CREEGON	HATCH RACK SPURT IMENT EXPER IMENT	RAPID RIVER RAPID	91748822222222222222222222222222222222222	711 711 660 787 737 7687 711 686 711 737 737 730 7100 730	ችግሄ• ከናግናናብጣናካୟ ከናከ		9129 91320 9146 91476 91447 91594 61752 91679 9184 9184 9184 92181 9184 92181 92181 92181 92181 92181 92181 92181 9318181 9318181 93	89999999999999999999999999999999999999
102113 102113 102113 102113	SP CK SP CK SP CK SP CK	I DAHC I DAHO I DAHC I DAHO	HATCH RACK HATCH RACK HATCH RACK HATCH RACK	RAPIC RIVER RAPID FIVER RAPID RIVER RAPID PIVER	90683 82583 62783 82283	813 813 889 864	F F M	JI AC AC AC	G4738 10061 10045 16052	8568 9568 8569 8569

			•					•	_		
	ADULT RECEVER	RY EY HA	TCHERY AND [CATA CODE							
	CATA CUDE	SPEC IES	RECOVERY AGENCY	TYPE RECOVERY	LOCATION	RECCVERY DATE	L ENGTH MM	SEX	MARK COCE	TAG IC NUMBER	FILE NO
	************************************		****	*******	*********					*****	
	102114 102114 102114 102114 102114 102114 102114 102114 102114 102114 102114	00000000000000000000000000000000000000	I DAHO I DAHC I DAHC I DAHO I CAHO I CAHO I CAHO I CAHO I CAHO I CAHO	FATCH RACK HATCH RACK	RAPID RIVER RAPID FIVER RAPID FIVER RAPID FIVER RAPID FIVER RAPID ROVER	92222222222222222222222222222222222222	711 737 737 7813 686 762 838 762 838 762 711	***************************************		9134 91442 91452 91557 91553 91565 9178 91865 91866 918746 918746	3295 3295 3296 8296 8296 8296 8298 8298 8299 8300 8300 8381
	102114 102114 102114 102114 102114 102114 RUN TCTAL:	5PP CKK 5SPP CK 5SPP CK	GREGEN IDAHG IDAHG IDAHG IDAHO IDAHO	GILL NET HATCH KACK PATCH RACK HATCH RACK HATCH RACK HATCH RACK	OREGON ZON Z RAPID RIVER RAPID RIVER RAPID RIVER RAPID RIVER RAPID RIVER	20483 90183 62983 82983 90783	872 4889 8865 838	E 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C C A C C C A C	83L0304 10362 10060 10359 G14053 10048	8392 8568 8568 8568 8568 8569
,	ICTAL TAGS:	19									
	*************************************	LK	****	******	***					*****	
	102115 102115 102115 102115 102115 102115 RUN TCTAL:	SP CK SP CK SP CK SP CK SP CK	WASH IDAHC IDAHU OREGEN OREGON OREGON	FATCH RACK FATCH RACK FATCH RACK INDIAN CTS FATCH RACK FATCH RACK	LITTLE WHITE RAPID RIVER RAPID RIVER UMATILLA PELION DAM PELION DAM	62582 901582 91582 43082 90882 90282	750 686 889 710 718 664	* * * * * * * * * * * * * * * * * * *	********* AC J1 AC AC AC AC	128CC G1747 9182 U82U9506 82Y2059 82Y2C13	********** 8287 8296 8300 8376 8501 8501
	TOTAL TAGS:	6									
	**************************************	DR			******	****	***			* * * * * * * * * * * * * * * * * * * *	*** ** ** **
	102236	SP CK	CREGEN	EXPERIMENT	NEWPORT	51981	206	F	******** AD	*********** 81YC139	********** 8282

RAPIC RIVER

72682

432

ΑD

AE

81YC139

9171

8282

8299

IDAHC

PUN TCTAL:

RUN TOTAL:

102236

1

SP CK

FATCH RACK

	ADULT RECOVER	Y BY HA	RECOVERY AGENCY	CATA CODE TYPE RECOVERY	LCCATION	RECCVERY CATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	FILE NO
	102236 102236 102236 102236 102236 RUN TCTAL:	SP CK SP CK SP CK SP CK	IDAHO IDAHO IDAHO IDAHO	HATCH RACK FATCH RACK FATCH RACK FATCH RACK	RAPID RIVER RAPID RIVEN RAPID RIVER RAPID RIVER	80093 80083 81883 81883	787 737 737 747 762	м Е Е	AC AC AC AC	19064 10344 10047 10051	8568 8569 8569 8569
	TCT#L TAGS:	6									
	**************************************	D R	***********	*****************	****************	· * * * * * * * * * * * * * * * * * * *	*******	** * * * * * * * * * * * * * * * * * *		****	
	102237 102237 102237 102237 102237 102237 102237 RUN TCTAL:	SP CK SP CK SP CK SP CK	IDAHG IDAHO IDAHO IDAHC IDAHO IDAHO	HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK	RAPIC RIVER RAPID FIVER RAPID RIVER RAPID FIVER RAPID FIVER KAPID RIVER	82583 80083 80083 80083 90683 8258	737 787 813 762 686 737	ተን ተና ተ	A C A C A C A C A C	10063 10058 100546 100546 10053	8568 8568 9563 8569 8569 8569
	TGTAL TAGS:	é									
173	************* 102238 - RAPI ************	C R	**************	•*****************	* * * * * * * * * * * * * * * * * * *	*************	************			*************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	102238 102238 102238 102238 102238 102238 102238 102238	20000000000000000000000000000000000000	OHAGI OHAGI OHAGI OHAGI UHAGI OHAGI OHAGI	FATCH RACK FATCH RACK FATCH RACK FATCH RACK FATCH RACK HATCH RACK HATCH RACK HATCH RACK HATCH RACK	RAPIO RIVER RAPIO RIVER RAPIO RIVER RAPIO RIVER RAPIO RIVER RAPIC FIVER RAPIO RIVER RAPIO RIVER	83333 803246883 8236883 9001588 9225883	737 686 711 787 737 762 737 762	W F W F X	A D C C C C C C C C C C C C C C C C C C	10057 10055 10055 10040 10042 10043 10054	8568 8569 8569 8569 8569 8569 8569 8569
	TETAL TAGS:	E									
	4************************************										
	13C328 13O328 10C328 RUN TETAL:	SP CK SP CK SP CK	IDAHG IDAHC DREGON	SPAWN GR SPAWN GR INDIAN CTS	RED RIVER RED RIVER YAKIMA	90981 90181 41881	737 648 685	F M	A C A C A C	8115 8124 8109503	8162 8162 8219
	100328 100328 100328	SP CK SP CK SP CK	CREGEN IDAHC IDAHC	GILL NET SPAWN GR SPAWN GR	OREGON ZON 1 RED RIVER RED RIVER	22682 90982 90982	798 889 838	F M F	AE AC AC	82L2325 9091 9092	8282 8290 8291

(

(

(

(

(

ADULT RECOVERY BY FAICHERY AND CATA CODE										
EATA CODE	SPECIES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECCVERY CATE	LENGTH MM	SEX	MA FK CODE	TAG IC NUMBER	FILE NC
10C328 10C328 10C328 10C328	SP CK SP CK SP CK SP CK	IDAHG IDAHC WASH WASH	SPAWN GR SPAWN GR INDIAN CTS INDIAN CTS	SF RED RIVER RED RIVER YAKIMA YAKIMA	90982 90982 40982 41382	787 864 •	F y	AC AC AC AC	9094 9100 9585 82001202	8291 8291 8344 8344
RUN TCTAL:	7									
TCT/L TAGS:	10									
**************************************	*********** 	*****	******	* * * * * * * * * * * * * * * * * * *	*******	*********** ******	******	* * * * * * * * * * * * * * * * * * *	************	****
122 122 122 122 122 122 123 123 123 123	######################################	CONTRACTOR NO. TO CONTRACTOR N	GRRGRRGRRGRRGRRGRGRGRGRGRGRGRGRGRGRGRG	VERRERRERRERRERRERRERRERRERRERRERRERRERR	22222222222222222222222222222222222222	718177716687277017511887338821 •5	+++2>>++++++++++++++>++>>		90788773845678999999999999999999999999999999999999	99900000000000000000000000000000000000
FUN TOTAL:	30					·				
102112 102112 103112 103112 103112 102112 102112 102112 102112 102112 102112	2	UREGEN IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO IDAHO	GILL NET HATCH RACK HATCH RACK HATCH RACK SPAWN GR	OR DEPORT OF THE PROPERT OF THE PROP	228833 8224883 8226883 9216883 921883 921883 921883 921783 921783	9038 8387 932469 94887 8887 88827 9055 1 88	* + * * + * * + * * + * * + * * + * * + * * + * * * + *		83990000 839900000 8399900000 8399900000 8399900000 83999000 8399900 8399900 8399900 8399900	22223444 9332333444 35555555534 8555555555 8858888888888

TOTAL TAGS:

42

	ADULT RECEVER	RY EY HA	TCHERY AND	CATA CODE							
	DATA CODE	SPEC IES	RECOVERY AGENCY	TYPE RECCVERY	LOCATION	RECOVERY DATE	LENGTH MM	SEX	MARK CCCE	TAG ID NUMBER	'FILE NO
	**************************************	********** 	******	****************	***************	***************	***********	*****	*** ** *** **	*************	******
	102127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127 1022127	######################################	I D A H O I C A H O I C A H O I C A H O I D A H O I D A H O I D A A H O I D A A H O I D A A H O I D A A H O I D A A H C	HATCH RACKK HATCH RACCK SPAWN GRR SPAWN GRR SPAWN GRR SPAWN	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	\$8333333333333333333333333333333333333	7490 713759 773749 7737466637 773266637 77388 77388 77388 77384 77384			20000000000000000000000000000000000000	222222222222234444445555555555555555555
_		•									
1	TOTAL TAGS:	23									
	**************************************	*****************	**************	• * * * * * * * * * * * * * * * * * * *	*	******************	********	******	* * * * * * * * * * * * * * * * * * *	****	* * * * * * * * * * * * * * * * * * *
	72202	STLFD	EDAHQ	SPORT FISH	SNAKE FIVER	92483	787	F	AC	3V\$F005	856 7
	RLN TETAL:	1									
	TCT/L TAGS:	1									

,

GRAND TOTAL: 6854

Submitted by:

Rodney C. Duke Senior Fishery Research Biologist

Approved by: IDAHO DEPARTMENT OF FISH AND GAME

Jerry M. Conley, Director

Bureau of Fisheries

David W. Ortmann Fishery Research Supervisor